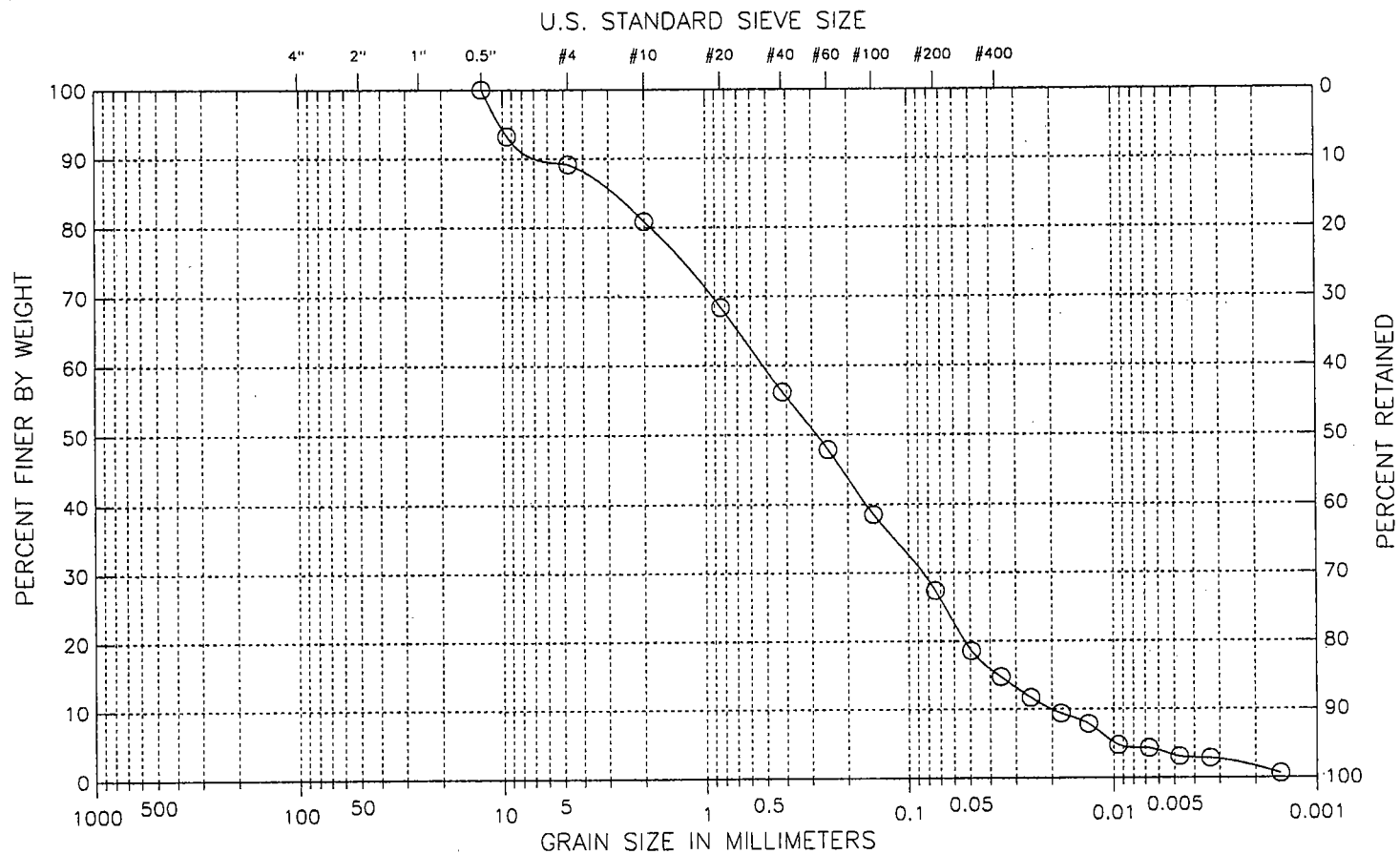


Boring No. : ---  
 Sample No.: DAMV00  
 Test Method ASTM D 422  
 Filename : 041

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-007



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Classification :

Remarks :

Visual Description :

Moist, black silty sand with organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery

Project No. : GTX-2794

Boring No. : ---

Sample No. : DAMV00

Location : Pownal, VT

Soil Description : Moist, black silty sand with organics

Remarks : ---

Depth : ---

Test Date : 06/22/00

Test Method : ASTM D 422

Filename : 041

Elevation : ---

Tested by : KAH

Checked by : GTT

## HYDROMETER

Hydrometer ID : 88-18231

Weight of air-dried soil = 52.54 gm

Specific Gravity = 2.67

Hydroscopic Moisture Content :

Weight of Wet Soil = 0 gm

Weight of Dry Soil = 0 gm

Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	18.50	20.00	12.10	0.049	19	0.049
2.00	16.00	20.00	9.60	0.035	15	0.035
4.00	14.00	20.00	7.60	0.025	12	0.025
8.00	12.50	20.00	6.10	0.018	9	0.018
15.00	11.50	20.00	5.10	0.013	8	0.013
30.00	9.50	20.00	3.10	0.010	5	0.010
60.00	9.00	20.50	2.80	0.007	4	0.007
120.00	8.00	21.00	2.00	0.005	3	0.005
240.00	7.50	21.50	1.84	0.003	3	0.003
1236.00	7.00	19.50	0.40	0.002	1	0.002

FINE SIEVE SET					
Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
0.5"	0.500	12.70	0.00	0.00	100
0.375"	0.374	9.51	4.40	4.40	93
#4	0.187	4.75	2.65	7.05	89
#10	0.079	2.00	5.38	12.43	81
#20	0.033	0.84	8.11	20.54	68
#40	0.017	0.42	7.93	28.47	56
#60	0.010	0.25	5.41	33.88	48
#100	0.006	0.15	6.07	39.95	39
#200	0.003	0.07	7.21	47.16	27
Pan			17.81	64.97	0

Total Dry Weight of Sample = 74.07

D85 : 3.0795 mm  
 D60 : 0.5220 mm  
 D50 : 0.2858 mm  
 D30 : 0.0871 mm  
 D15 : 0.0363 mm  
 D10 : 0.0199 mm

## Soil Classification

ASTM Group Symbol : N/A

ASTM Group Name : N/A

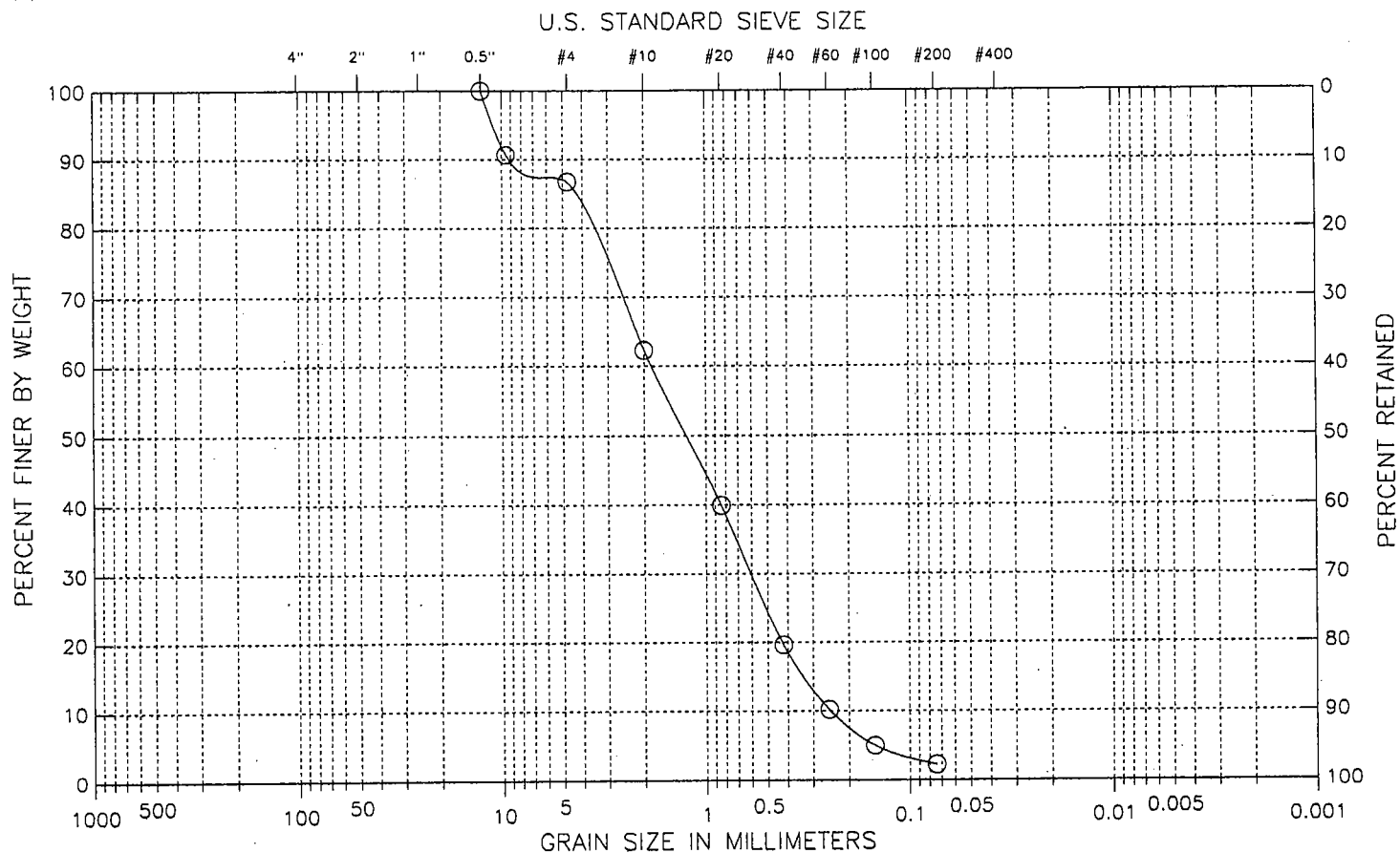
AASHTO Group Symbol : A-2-4 (0)

AASHTO Group Name : Silty Gravel and Sand

Boring No. : ---  
 Sample No.: DAMU95  
 Test Method ASTM D 422  
 Filename : 042

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-008



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Classification :  
 (SP) Poorly graded sand  
 Visual Description :  
 - Wet, dark greenish gray sand with gravel

Remarks :  
 Hydrometer not performed, fines <10%

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery

Project No. : GTX-2794

Boring No. : ---

Sample No. : DAMU95

Location : Pownal, VT

Soil Description : Wet, dark greenish gray sand with gravel

Remarks : Hydrometer not performed, fines &lt;10%

Depth : ---

Test Date : 06/26/00

Test Method : ASTM D 422

Filename : 042

Elevation : ---

Tested by : KAH

Checked by : GTT

Sieve Mesh	Sieve Openings		FINE SIEVE SET		Percent Finer (%)
	Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	
0.5"	0.500	12.70	0.00	0.00	100
0.375"	0.374	9.51	8.67	8.67	91
#4	0.187	4.75	3.67	12.34	87
#10	0.079	2.00	22.76	35.10	62
#20	0.033	0.84	20.81	55.91	40
#40	0.017	0.42	18.86	74.77	20
#60	0.010	0.25	8.77	83.54	10
#100	0.006	0.15	4.84	88.38	5
#200	0.003	0.07	2.58	90.96	2
Pan			2.06	93.02	0

Total Dry Weight of Sample = 102.67

D85 : 4.4676 mm

D60 : 1.8320 mm

D50 : 1.2438 mm

D30 : 0.5993 mm

D15 : 0.3257 mm

D10 : 0.2453 mm

## Soil Classification

ASTM Group Symbol : SP

ASTM Group Name : Poorly graded sand

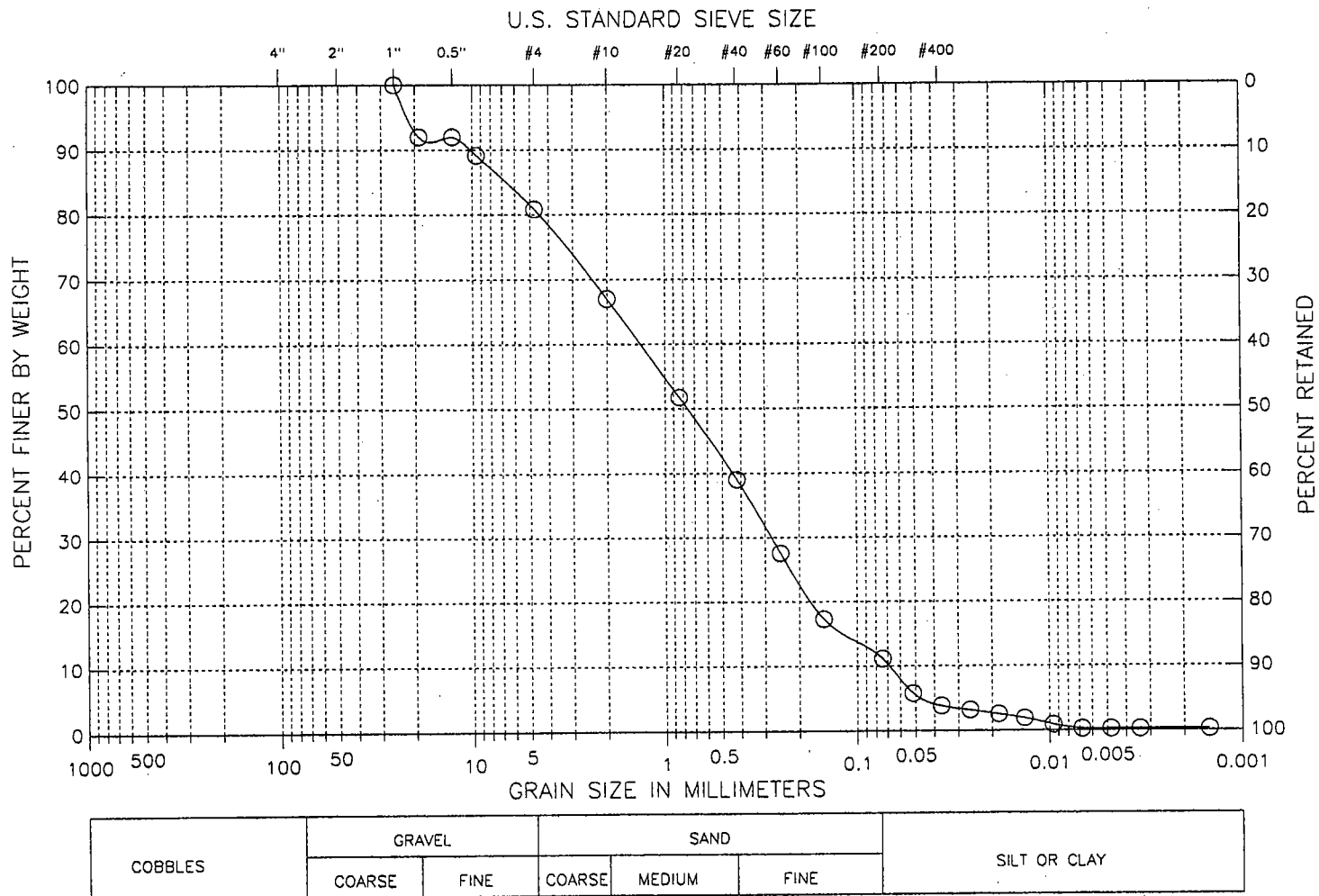
AASHTO Group Symbol : A-1-b(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : ---  
 Sample No.: DAMU99  
 Test Method ASTM D 422  
 Filename : 043

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-009



Classification :

Remarks :

Visual Description :

Moist, very dark gray sand with silt and organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMU99  
 Location : Pownal, VT  
 Soil Description : Moist, very dark gray sand with silt and organics  
 Remarks : ---

Depth : ---  
 Test Date : 06/22/00  
 Test Method : ASTM D 422

Filename : 043  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 583901  
 Weight of air-dried soil = 51.55 gm  
 Specific Gravity = 2.67

Hydroscopic Moisture Content :  
 Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	11.00	20.00	4.46	0.052	6	0.052
2.00	9.50	20.00	2.96	0.037	4	0.037
4.00	9.00	20.00	2.46	0.026	3	0.026
8.00	8.50	20.00	1.96	0.019	3	0.019
15.00	8.00	20.00	1.46	0.014	2	0.014
30.00	7.00	20.50	0.68	0.010	1	0.010
60.00	6.50	20.50	0.18	0.007	0	0.007
120.00	6.50	20.50	0.18	0.005	0	0.005
240.00	6.50	20.50	0.18	0.003	0	0.003
1254.00	6.50	20.50	0.18	0.001	0	0.001

FINE SIEVE SET					
Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
1"	1.012	25.70	0.00	0.00	100
0.75"	0.748	19.00	6.15	6.15	92
0.5"	0.500	12.70	0.00	6.15	92
0.375"	0.374	9.51	2.20	8.35	89
#4	0.187	4.75	6.39	14.74	81
#10	0.079	2.00	10.66	25.40	67
#20	0.033	0.84	11.73	37.13	52
#40	0.017	0.42	9.80	46.93	39
#60	0.010	0.25	8.80	55.73	28
#100	0.006	0.15	7.91	63.64	17
#200	0.003	0.07	4.75	68.39	11
Pan			8.56	76.95	0

Total Dry Weight of Sample = 86.55

D85 : 6.7229 mm  
 D60 : 1.3442 mm  
 D50 : 0.7646 mm  
 D30 : 0.2791 mm  
 D15 : 0.1148 mm  
 D10 : 0.0686 mm

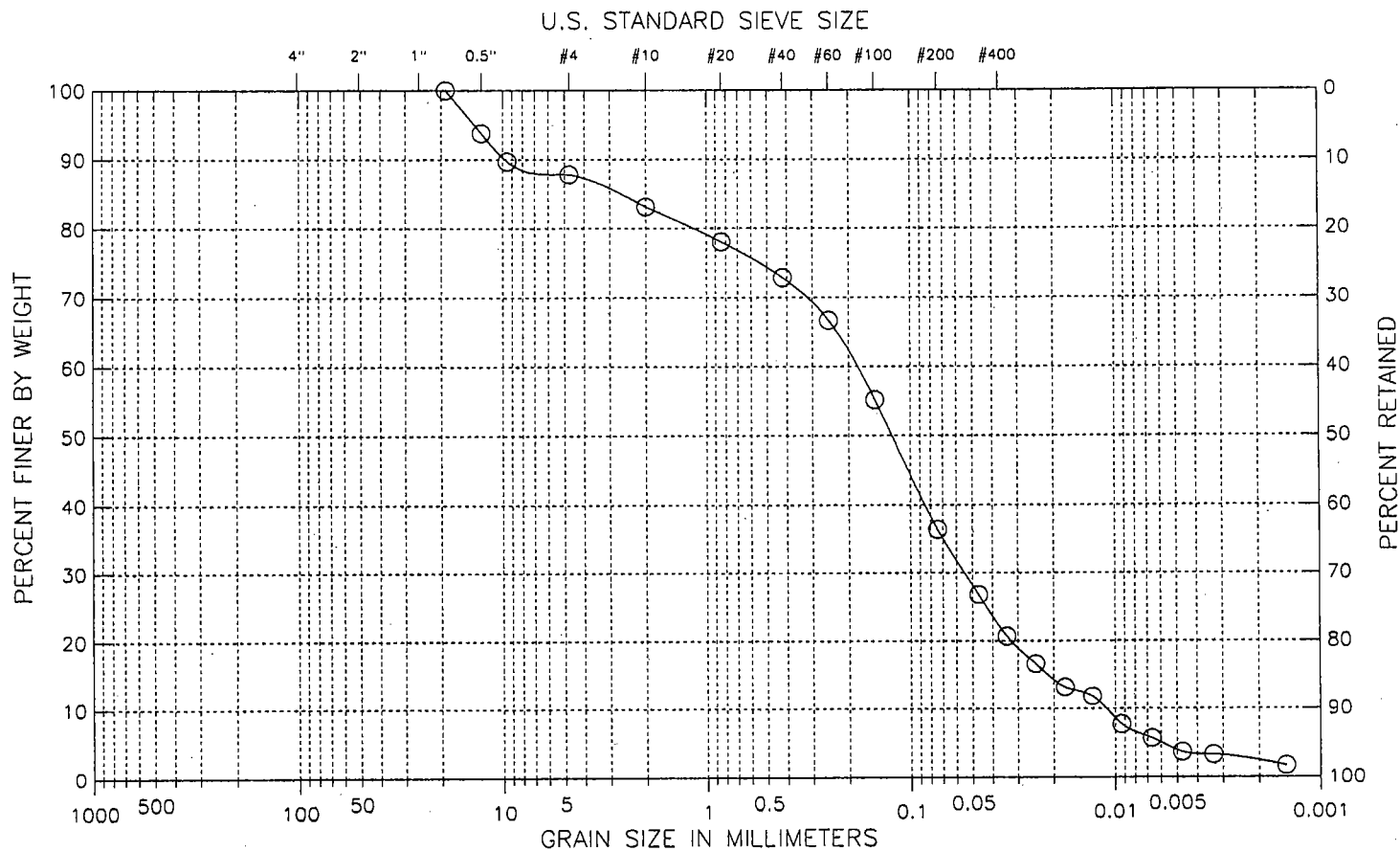
## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-1-b(0)  
 AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : ---  
 Sample No.: DAMU96  
 Test Method ASTM D 422  
 Filename : 044

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-010



## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMU96  
 Location : Pownal, VT  
 Soil Description : Wet, dark greenish gray clayey sand  
 Remarks : ---

Filename : 044  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 583901  
 Weight of air-dried soil = 60.9 gm  
 Specific Gravity = 2.67

## Hydroscopic Moisture Content :

Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	26.00	20.50	19.68	0.047	27	0.047
2.00	21.50	20.50	15.18	0.034	21	0.034
4.00	18.50	20.50	12.18	0.025	17	0.025
8.00	16.00	20.50	9.68	0.018	13	0.018
15.00	15.00	20.50	8.68	0.013	12	0.013
30.00	12.00	20.50	5.68	0.009	8	0.009
60.00	10.50	20.50	4.18	0.007	6	0.007
120.00	9.00	20.50	2.68	0.005	4	0.005
240.00	8.50	21.00	2.40	0.003	3	0.003
1282.00	8.00	19.50	1.24	0.001	2	0.001

FINE SIEVE SET					
Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
0.75"	0.748	19.00	0.00	0.00	100
0.5"	0.500	12.70	4.54	4.54	94
0.375"	0.374	9.51	2.98	7.52	90
#4	0.187	4.75	1.39	8.91	88
#10	0.079	2.00	3.43	12.34	83
#20	0.033	0.84	3.73	16.07	78
#40	0.017	0.42	3.80	19.87	73
#60	0.010	0.25	4.54	24.41	67
#100	0.006	0.15	8.41	32.82	55
#200	0.003	0.07	13.78	46.60	36
Pan			26.64	73.24	0

Total Dry Weight of Sample = 82.83

D85 : 2.8140 mm  
 D60 : 0.1851 mm  
 D50 : 0.1228 mm  
 D30 : 0.0545 mm  
 D15 : 0.0210 mm  
 D10 : 0.0112 mm

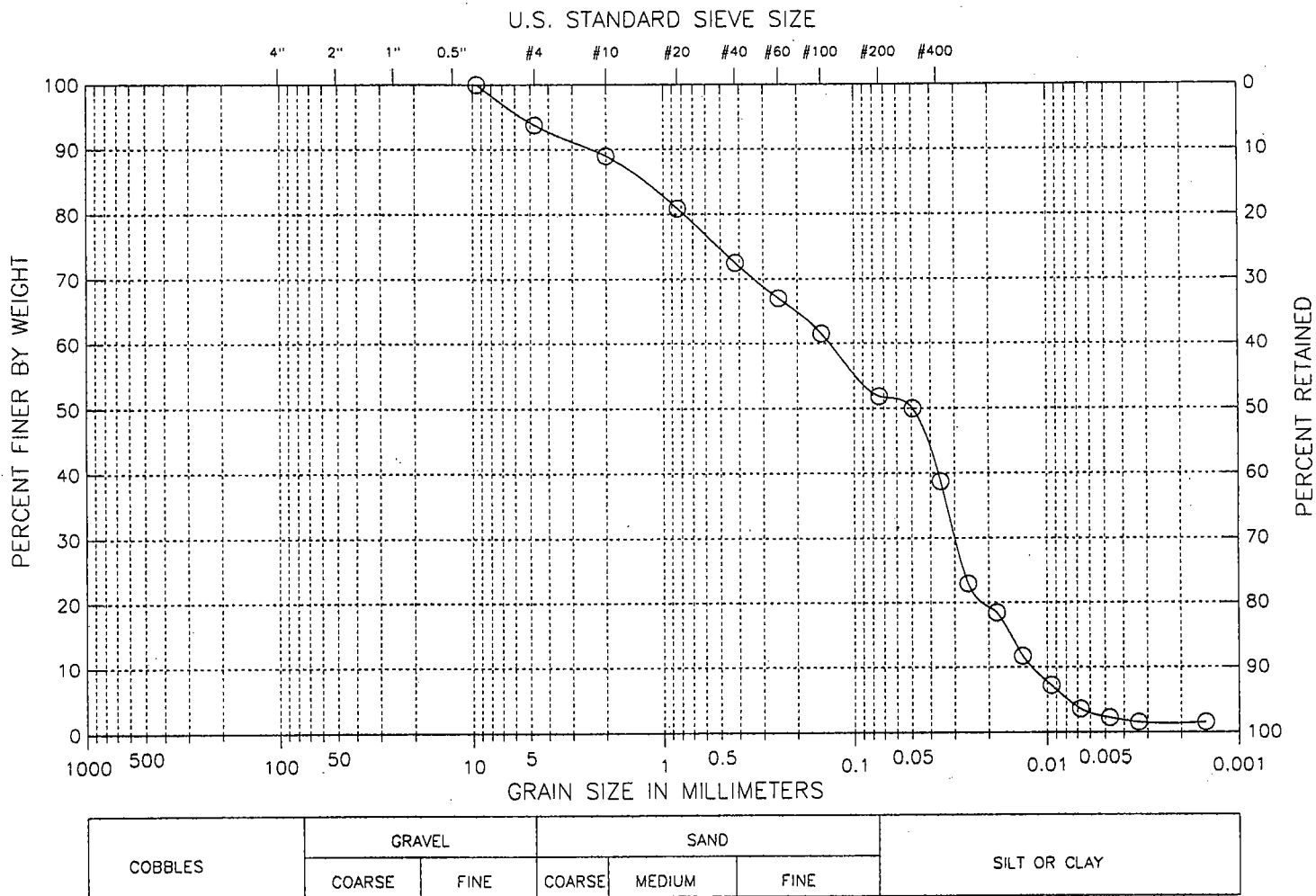
## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-4(0)  
 AASHTO Group Name : Silty Soils

Boring No. : ---  
 Sample No.: DAMV02  
 Test Method ASTM D 422  
 Filename : 045

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-011



Classification :

Remarks :  
 ---

Visual Description :

Wet, black sandy clay with organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMV02  
 Location : Pownal, VT  
 Soil Description : Wet, black sandy clay with organics  
 Remarks : ---

Depth : ---  
 Test Date : 06/22/00  
 Test Method : ASTM D 422

Filename : 045  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 88-18231  
 Weight of air-dried soil = 19.63 gm  
 Specific Gravity = 2.69

## Hydroscopic Moisture Content :

Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	17.50	20.00	11.10	0.049	50	0.049
2.00	15.00	20.00	8.60	0.035	39	0.035
4.00	11.50	20.00	5.10	0.026	23	0.026
8.00	10.50	20.00	4.10	0.018	18	0.018
15.00	9.00	20.00	2.60	0.013	12	0.013
30.00	8.00	20.00	1.60	0.010	7	0.010
60.00	7.00	20.50	0.80	0.007	4	0.007
120.00	6.50	21.00	0.50	0.005	2	0.005
240.00	6.00	21.50	0.34	0.003	2	0.003
1208.00	6.00	21.50	0.34	0.001	2	0.001

FINE SIEVE SET					
Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	1.37	1.37	94
#10	0.079	2.00	1.06	2.43	89
#20	0.033	0.84	1.79	4.22	81
#40	0.017	0.42	1.85	6.07	72
#60	0.010	0.25	1.21	7.28	67
#100	0.006	0.15	1.21	8.49	62
#200	0.003	0.07	2.14	10.63	52
Pan			11.43	22.06	0

Total Dry Weight of Sample = 30.87

D85 : 1.3070 mm  
 D60 : 0.1336 mm  
 D50 : 0.0498 mm  
 D30 : 0.0296 mm  
 D15 : 0.0156 mm  
 D10 : 0.0118 mm

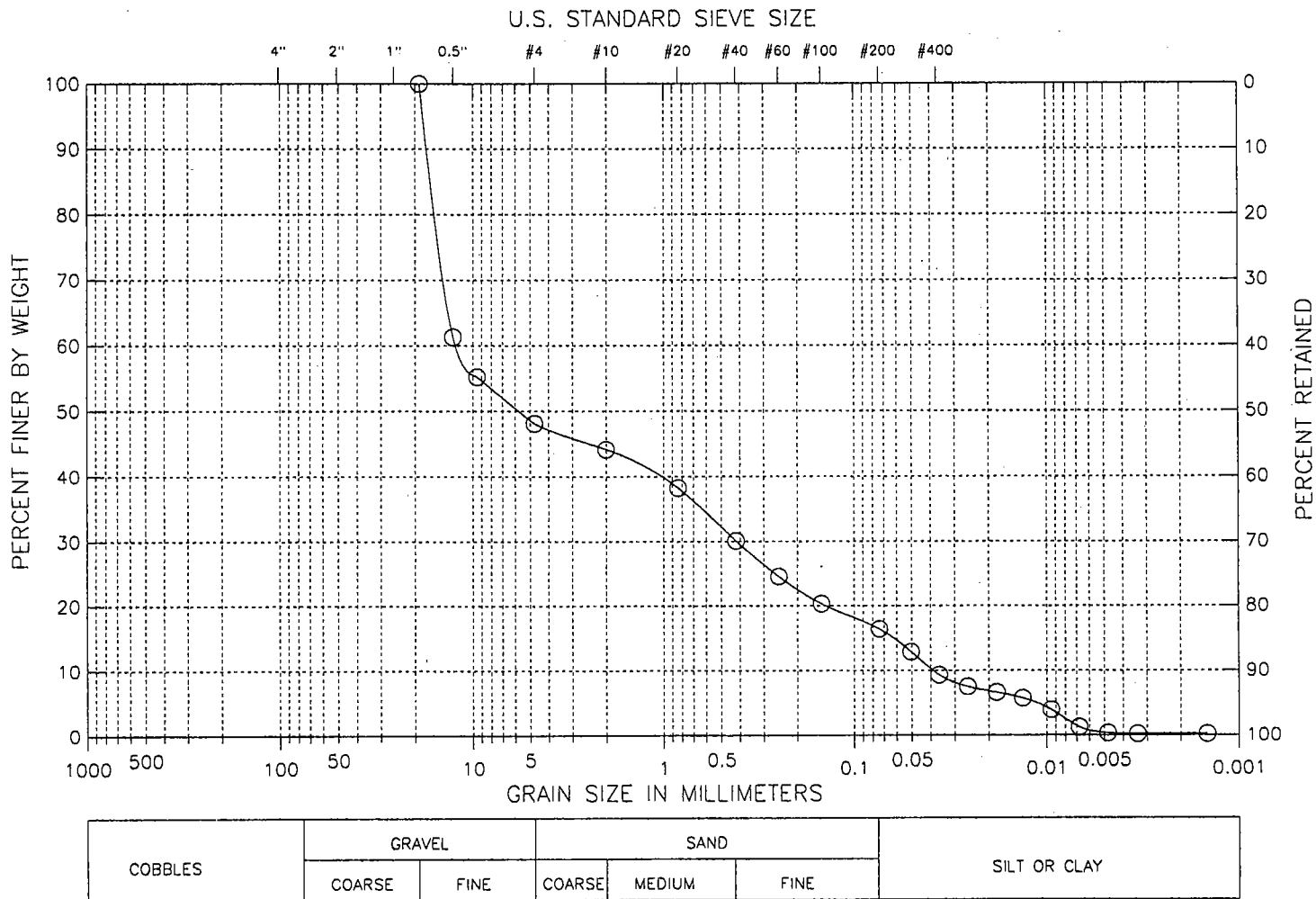
## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-4(0)  
 AASHTO Group Name : Silty Soils

Boring No.: ---  
 Sample No.: DAMV03  
 Test Method ASTM D 422  
 Filename : 046

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-012



Classification :

Remarks :  
 ---

Visual Description :

Wet, very dark brown sand with silt and organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMV03  
 Location : Pownal, VT  
 Soil Description : Wet, very dark brown sand with silt and organics  
 Remarks : ---

Depth : ---  
 Test Date : 06/22/00  
 Test Method : ASTM D 422

Filename : 046  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 583901  
 Weight of air-dried soil = 24.5 gm  
 Specific Gravity = 2.67

## Hydroscopic Moisture Content :

Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	13.50	20.50	7.18	0.051	13	0.051
2.00	11.50	20.50	5.18	0.036	9	0.036
4.00	10.50	20.50	4.18	0.026	8	0.026
8.00	10.00	20.50	3.68	0.018	7	0.018
15.00	9.50	20.50	3.18	0.013	6	0.013
30.00	8.50	20.50	2.18	0.009	4	0.009
60.00	7.00	20.50	0.68	0.007	1	0.007
120.00	6.50	20.50	0.18	0.005	0	0.005
240.00	6.00	21.50	0.10	0.003	0	0.003
1273.00	6.00	21.50	0.10	0.001	0	0.001

FINE SIEVE SET					
Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
0.75"	0.748	19.00	0.00	0.00	100
0.5"	0.500	12.70	21.50	21.50	61
0.375"	0.374	9.51	3.35	24.85	55
#4	0.187	4.75	3.97	28.82	48
#10	0.079	2.00	2.22	31.04	44
#20	0.033	0.84	3.26	34.30	38
#40	0.017	0.42	4.53	38.83	30
#60	0.010	0.25	3.06	41.89	25
#100	0.006	0.15	2.37	44.26	20
#200	0.003	0.07	2.16	46.42	16
Pan			9.12	55.54	0

Total Dry Weight of Sample = 65.05

D85 : 16.2541 mm  
 D60 : 11.9386 mm  
 D50 : 5.7073 mm  
 D30 : 0.4166 mm  
 D15 : 0.0635 mm  
 D10 : 0.0386 mm

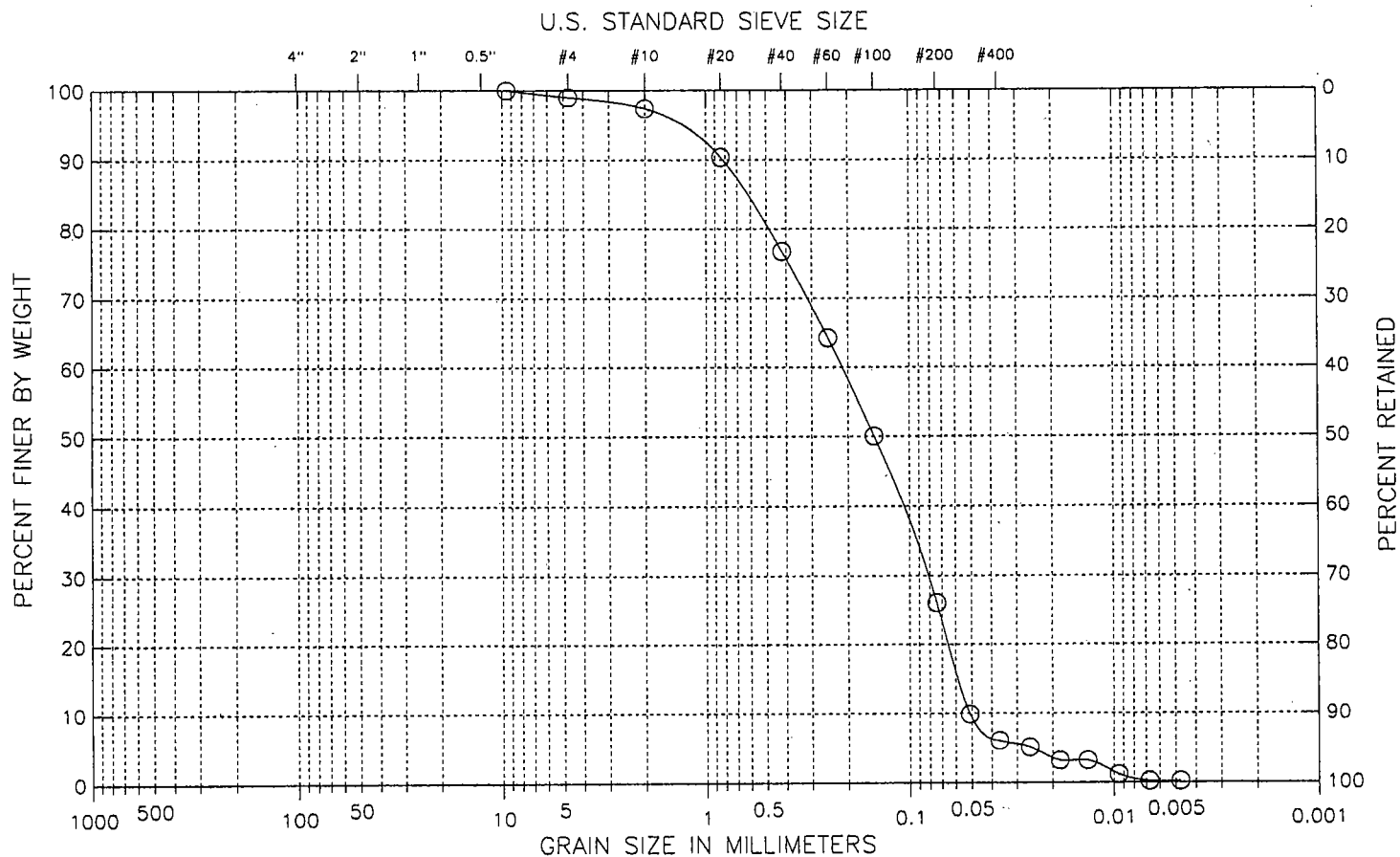
## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-1-b(0)  
 AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : ---  
 Sample No.: DAMV85  
 Test Method ASTM D 422  
 Filename : 047

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-013



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Classification :

Remarks :  
 ---

Visual Description :

Saturated, black sand with silt and organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery

Project No. : GTX-2794

Boring No. : ---

Sample No. : DAMV85

Location : Pownal, VT

Soil Description : Saturated, black sand with silt and organics

Remarks : ---

Depth : ---  
 Test Date : 06/22/00  
 Test Method : ASTM D 422

Filename : 047

Elevation : ---

Tested by : KAH

Checked by : GTT

## HYDROMETER

Hydrometer ID : 583901

Weight of air-dried soil = 50.96 gm

Specific Gravity = 2.67

Hydroscopic Moisture Content :

Weight of Wet Soil = 0 gm

Weight of Dry Soil = 0 gm

Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	11.50	20.50	5.18	0.051	10	0.051
2.00	9.50	20.50	3.18	0.037	6	0.037
4.00	9.00	20.50	2.68	0.026	5	0.026
8.00	8.00	20.50	1.68	0.018	3	0.018
15.00	8.00	20.50	1.68	0.013	3	0.013
30.00	6.50	21.50	0.60	0.009	1	0.009
60.00	6.00	21.50	0.10	0.007	0	0.007
120.00	6.00	21.50	0.10	0.005	0	0.005

## FINE SIEVE SET

Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.53	0.53	99
#10	0.079	2.00	0.84	1.37	97
#20	0.033	0.84	3.68	5.05	90
#40	0.017	0.42	7.13	12.18	77
#60	0.010	0.25	6.51	18.69	64
#100	0.006	0.15	7.44	26.13	50
#200	0.003	0.07	12.58	38.71	26
Pan			13.62	52.33	0

Total Dry Weight of Sample = 159.78

D85 : 0.6403 mm

D60 : 0.2139 mm

D50 : 0.1487 mm

D30 : 0.0831 mm

D15 : 0.0575 mm

D10 : 0.0513 mm

## Soil Classification

ASTM Group Symbol : N/A

ASTM Group Name : N/A

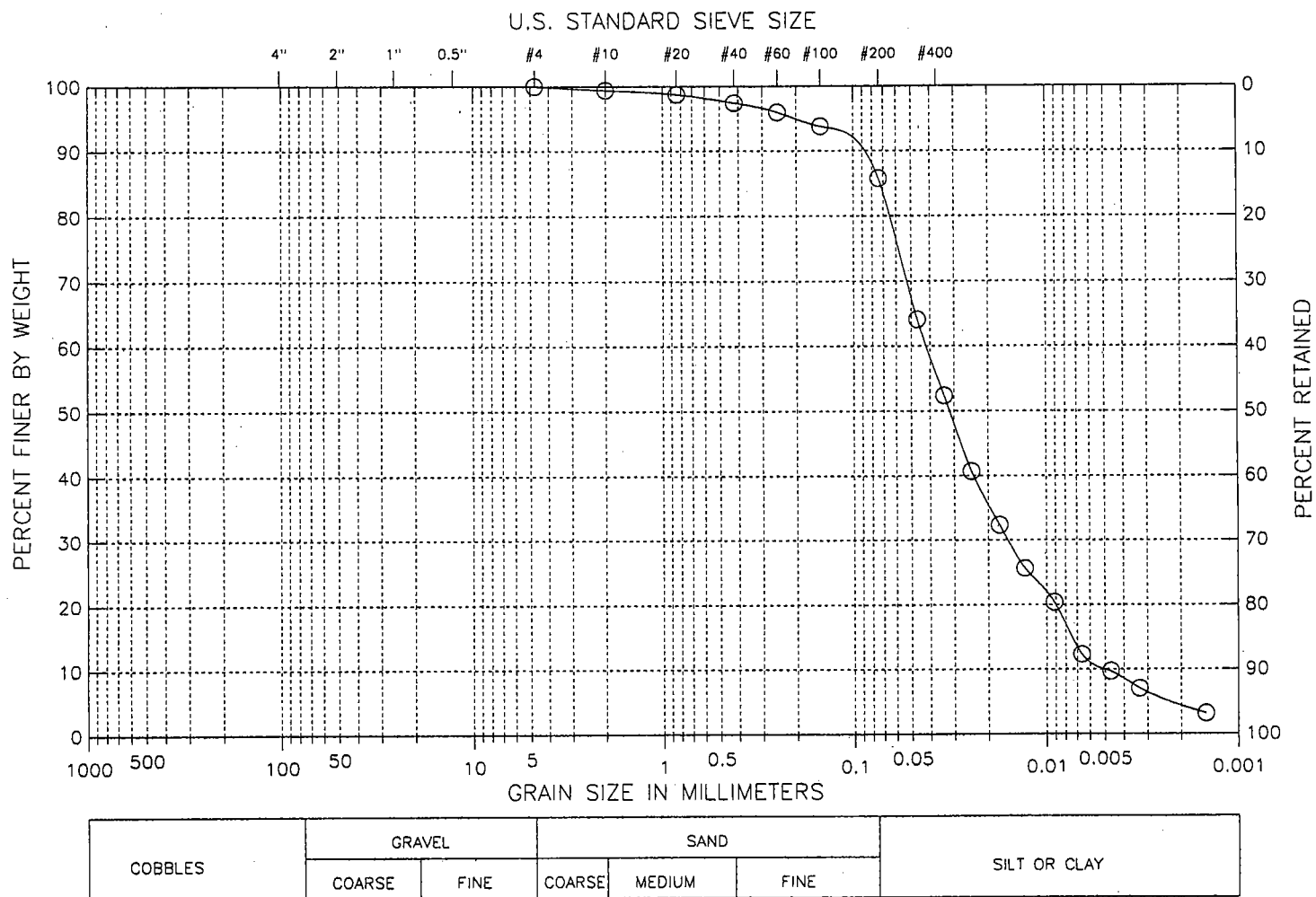
AASHTO Group Symbol : A-2-4(0)

AASHTO Group Name : Silty Gravel and Sand

Boring No. : ---  
 Sample No.: DAMW68  
 Test Method ASTM D 422  
 Filename : 048

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-014



Classification :

Remarks :

Visual Description :

Wet, dark brown clay with sand and organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMW68  
 Location : Pownal, VT  
 Soil Description : Wet, dark brown clay with sand and organics  
 Remarks : ---

Depth : ---  
 Test Date : 06/27/00  
 Test Method : ASTM D 422

Filename : 048  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 583901  
 Weight of air-dried soil = 29.56 gm  
 Specific Gravity = 2.69

Hydroscopic Moisture Content :  
 Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	25.50	20.50	19.18	0.047	64	0.047
2.00	22.00	20.50	15.68	0.034	52	0.034
4.00	18.50	20.50	12.18	0.024	41	0.024
8.00	16.00	20.50	9.68	0.018	32	0.018
15.00	14.00	20.50	7.68	0.013	26	0.013
30.00	12.00	21.50	6.10	0.009	20	0.009
60.00	10.00	20.50	3.68	0.007	12	0.007
120.00	9.00	21.00	2.90	0.005	10	0.005
240.00	8.00	21.50	2.10	0.003	7	0.003
1245.00	7.50	20.00	0.96	0.001	3	0.001

FINE SIEVE SET					
Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.17	0.17	99
#20	0.033	0.84	0.20	0.37	99
#40	0.017	0.42	0.40	0.77	97
#60	0.010	0.25	0.43	1.20	96
#100	0.006	0.15	0.64	1.84	94
#200	0.003	0.07	2.39	4.23	86
Pan			25.50	29.73	0

Total Dry Weight of Sample = 143.91

D85 : 0.0728 mm  
 D60 : 0.0417 mm  
 D50 : 0.0316 mm  
 D30 : 0.0158 mm  
 D15 : 0.0074 mm  
 D10 : 0.0049 mm

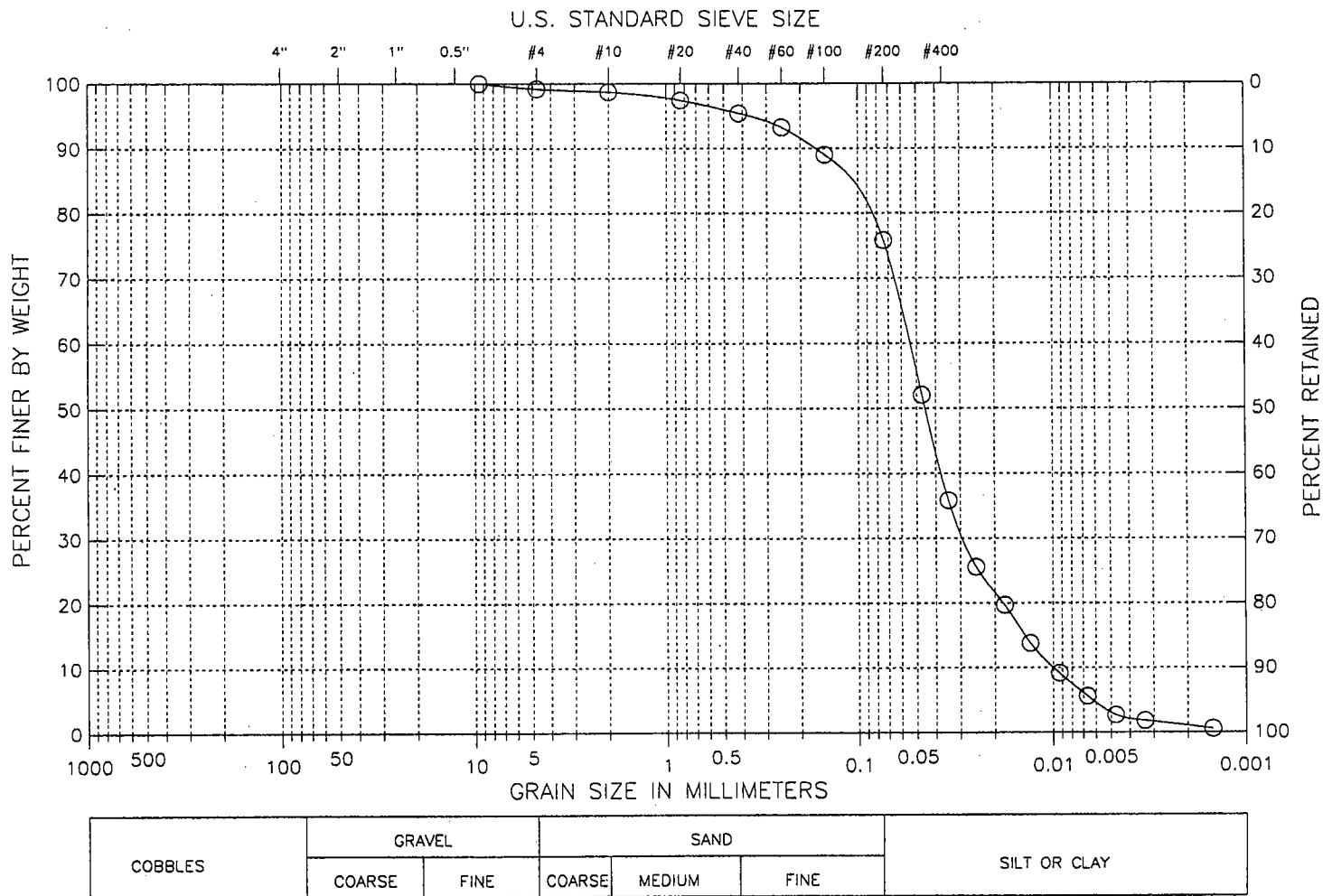
## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-4(0)  
 AASHTO Group Name : Silty Soils

Boring No. : ---  
 Sample No.: DAMV09  
 Test Method ASTM D 422  
 Filename : 049

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-015



Classification :

Remarks :

Visual Description :

Moist, very dark brown sandy clay with organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMV09  
 Location : Pownal, VT  
 Soil Description : Moist, very dark brown sandy clay with organics  
 Remarks : ---

Depth : ---  
 Test Date : 06/27/00  
 Test Method : ASTM D 422

Filename : 049  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 583901  
 Weight of air-dried soil = 33.29 gm  
 Specific Gravity = 2.69

## Hydroscopic Moisture Content :

Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	24.00	20.50	17.68	0.047	52	0.047
2.00	18.50	20.50	12.18	0.035	36	0.035
4.00	15.00	20.50	8.68	0.025	26	0.025
8.00	13.00	20.50	6.68	0.018	20	0.018
15.00	11.00	20.50	4.68	0.013	14	0.013
30.00	9.00	21.50	3.10	0.009	9	0.009
60.00	8.00	21.00	1.90	0.007	6	0.007
120.00	7.00	21.00	0.90	0.005	3	0.005
240.00	6.50	21.50	0.60	0.003	2	0.003
1237.00	6.50	20.50	0.18	0.001	1	0.001

Sieve Mesh	Sieve Openings		FINE SIEVE SET		Percent Finer (%)
	Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.27	0.27	99
#10	0.079	2.00	0.16	0.43	99
#20	0.033	0.84	0.44	0.87	97
#40	0.017	0.42	0.68	1.55	95
#60	0.010	0.25	0.72	2.27	93
#100	0.006	0.15	1.43	3.70	89
#200	0.003	0.07	4.46	8.16	76
Pan			25.56	33.72	0

Total Dry Weight of Sample = 141.09

D85 : 0.1204 mm  
 D60 : 0.0548 mm  
 D50 : 0.0453 mm  
 D30 : 0.0287 mm  
 D15 : 0.0140 mm  
 D10 : 0.0099 mm

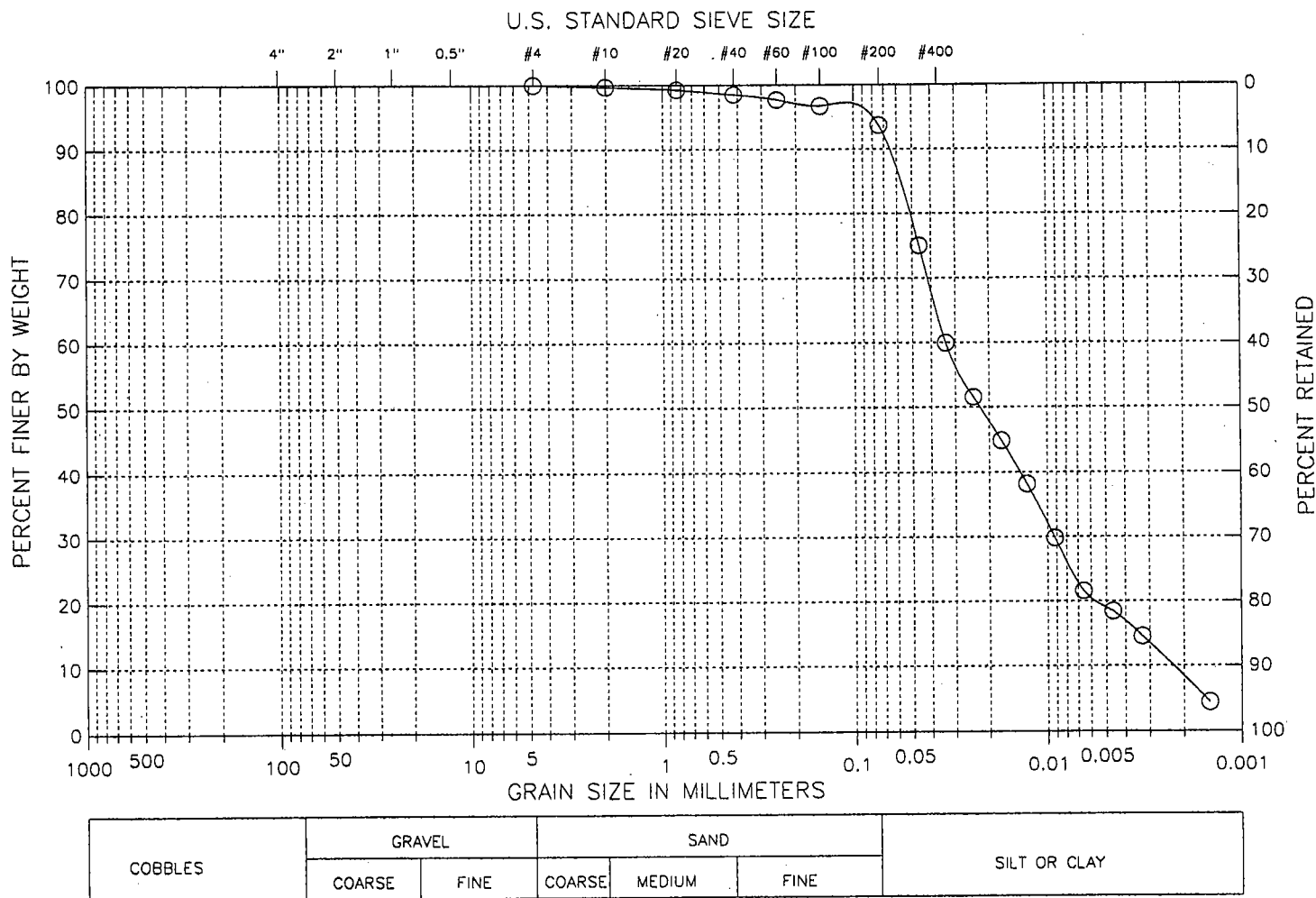
## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-4(0)  
 AASHTO Group Name : Silty Soils

Boring No. : ---  
 Sample No: DAMU70  
 Test Method ASTM D 422  
 Filename : 050

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-016



Classification :

Remarks :

Visual Description :

Wet, dark olive gray silt with organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMU70  
 Location : Pownal, VT  
 Soil Description : Wet, dark olive gray silt with organics  
 Remarks : ---

Depth : ---  
 Test Date : 06/27/00  
 Test Method : ASTM D 422

Filename : 050  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 649262  
 Weight of air-dried soil = 29.53 gm  
 Specific Gravity = 2.69

## Hydroscopic Moisture Content :

Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	28.00	20.00	22.38	0.046	75	0.046
2.00	23.50	20.00	17.88	0.034	60	0.034
4.00	21.00	20.00	15.38	0.024	52	0.024
8.00	19.00	20.00	13.38	0.017	45	0.017
15.00	17.00	20.00	11.38	0.013	38	0.013
30.00	14.50	20.00	8.88	0.009	30	0.009
60.00	12.00	20.50	6.44	0.007	22	0.007
120.00	11.00	21.00	5.50	0.005	18	0.005
240.00	9.50	21.50	4.34	0.003	15	0.003
1288.00	7.00	19.50	1.32	0.001	4	0.001

FINE SIEVE SET					
Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.09	0.09	100
#20	0.033	0.84	0.13	0.22	99
#40	0.017	0.42	0.23	0.45	98
#60	0.010	0.25	0.24	0.69	98
#100	0.006	0.15	0.29	0.98	97
#200	0.003	0.07	0.88	1.86	94
Pan			27.76	29.62	0

Total Dry Weight of Sample = 149.19

D85 : 0.0594 mm  
 D60 : 0.0337 mm  
 D50 : 0.0224 mm  
 D30 : 0.0093 mm  
 D15 : 0.0034 mm  
 D10 : 0.0023 mm

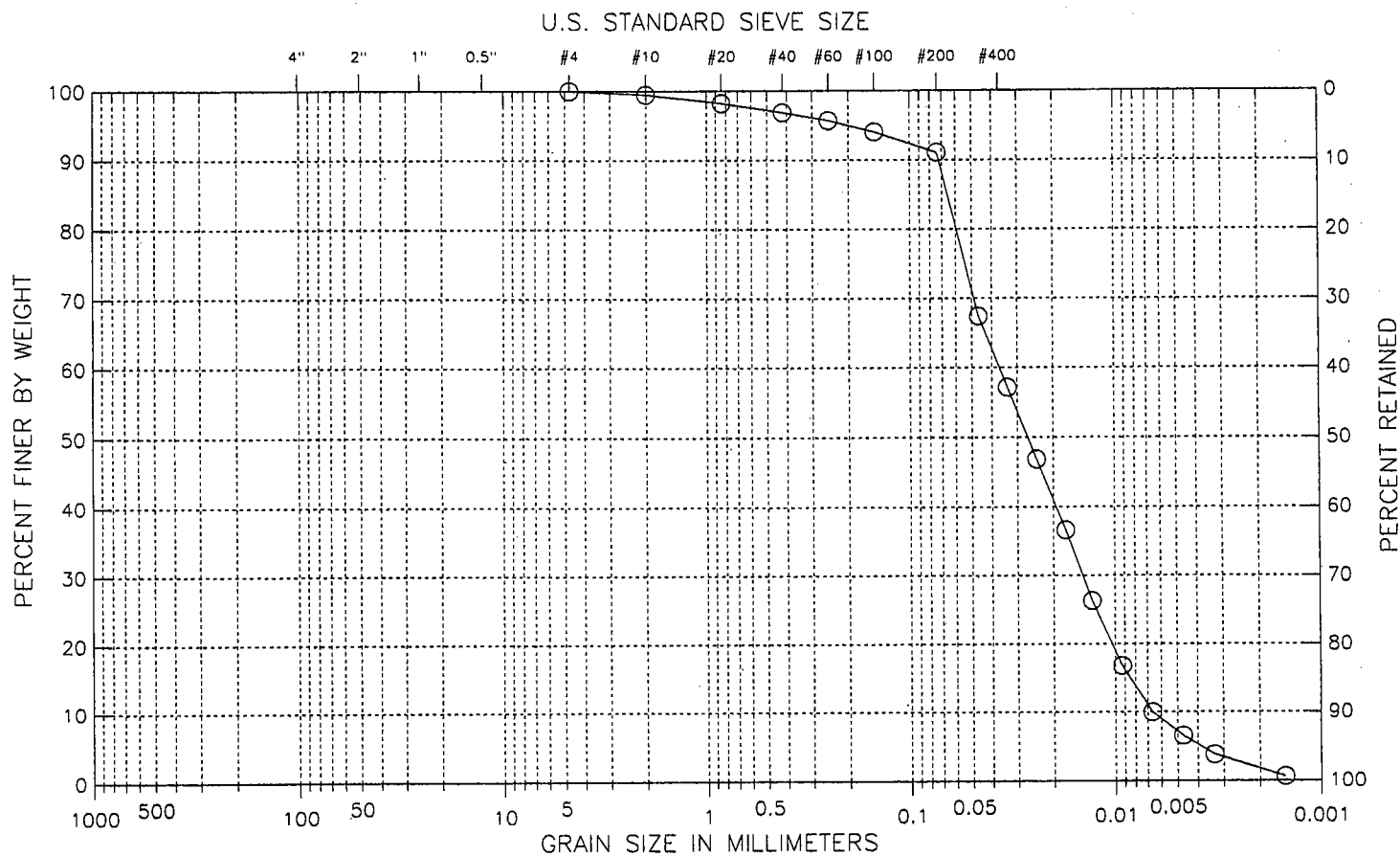
## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-4(0)  
 AASHTO Group Name : Silty Soils

Boring No. : ---  
 Sample No.: DAMV12  
 Test Method ASTM D 422  
 Filename : 051

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-017



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Classification :

Remarks :

Visual Description :  
 Wet, black clay with organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery

Project No. : GTX-2794

Boring No. : ---

Sample No. : DAMV12

Location : Pownal, VT

Soil Description : Wet, black clay with organics

Remarks : ---

Depth : ---

Test Date : 06/21/00

Test Method : ASTM D 422

Filename : 051

Elevation : ---

Tested by : KAH

Checked by : GTT

## HYDROMETER

Hydrometer ID : 583901

Weight of air-dried soil = 28.83 gm

Specific Gravity = 2.69

Hydroscopic Moisture Content :

Weight of Wet Soil = 0 gm

Weight of Dry Soil = 0 gm

Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	26.00	20.50	19.68	0.046	67	0.046
2.00	23.00	20.50	16.68	0.034	57	0.034
4.00	20.00	20.50	13.68	0.024	47	0.024
8.00	17.00	20.50	10.68	0.017	37	0.017
15.00	14.00	20.50	7.68	0.013	26	0.013
30.00	11.00	21.00	4.90	0.009	17	0.009
60.00	9.00	21.00	2.90	0.007	10	0.007
120.00	8.00	21.00	1.90	0.005	7	0.005
240.00	7.00	21.50	1.10	0.003	4	0.003
1209.00	6.50	20.50	0.18	0.002	1	0.002

## FINE SIEVE SET

Sieve Mesh	Sieve Openings Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
#4	0.187	4.75	0.00	0.00	100
#10	0.079	2.00	0.15	0.15	99
#20	0.033	0.84	0.36	0.51	98
#40	0.017	0.42	0.39	0.90	97
#60	0.010	0.25	0.34	1.24	96
#100	0.006	0.15	0.48	1.72	94
#200	0.003	0.07	0.87	2.59	91
Pan			26.39	28.98	0

Total Dry Weight of Sample = 147.09

D85 : 0.0657 mm

D60 : 0.0367 mm

D50 : 0.0267 mm

D30 : 0.0144 mm

D15 : 0.0085 mm

D10 : 0.0066 mm

## Soil Classification

ASTM Group Symbol : N/A

ASTM Group Name : N/A

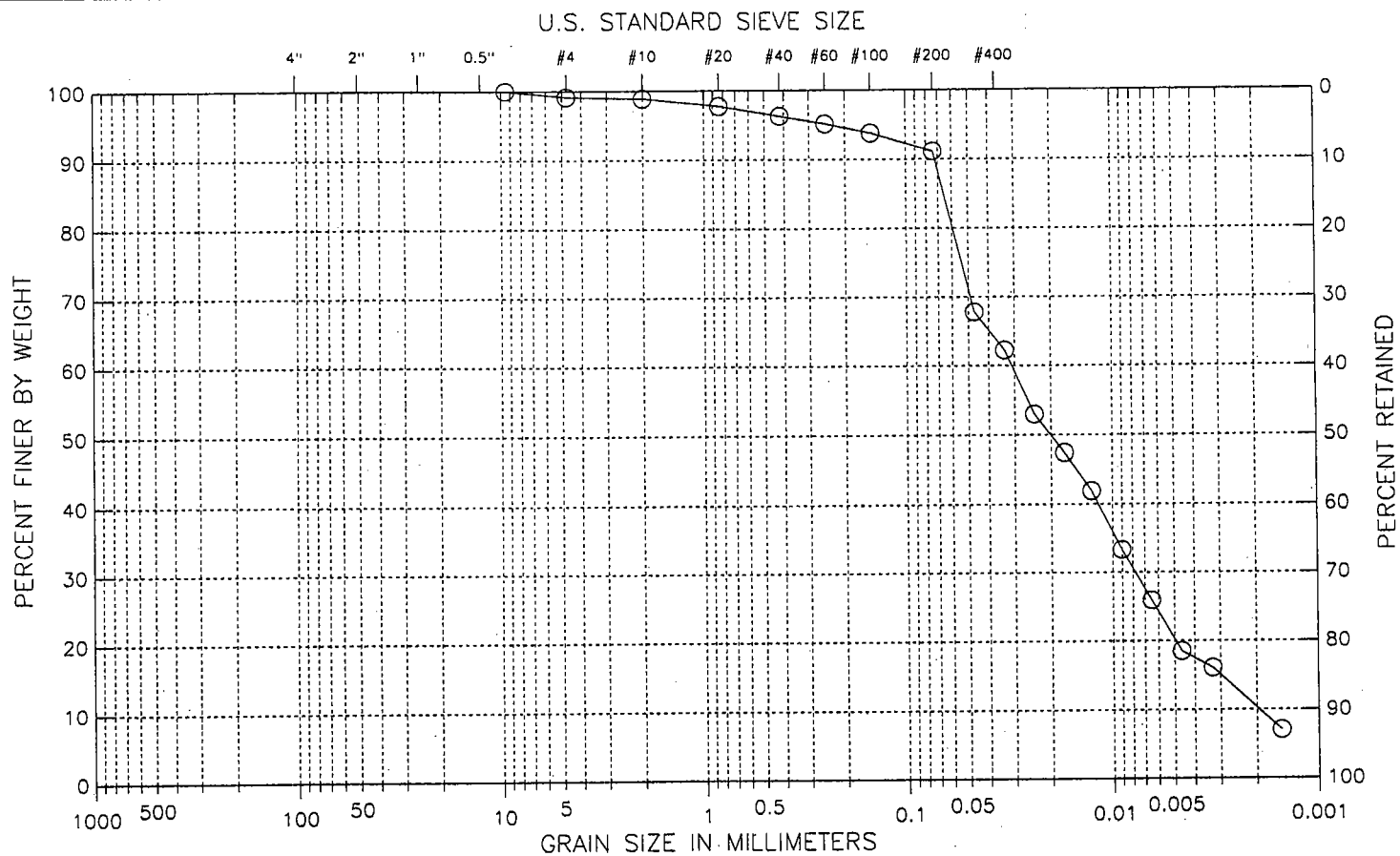
AASHTO Group Symbol : A-4(0)

AASHTO Group Name : Silty Soils

Boring No. : ---  
 Sample No.: DAMV10  
 Test Method ASTM D 422  
 Filename : 052

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-018



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Classification :

Remarks :

\*Visual Description :

Moist, dark brown clay with organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery

Project No. : GTX-2794

Boring No. : ---

Sample No. : DAMV10

Location : Pownal, VT

Soil Description : Moist, dark brown clay with organics

Remarks : ---

 Depth : ---  
 Test Date : 06/21/00  
 Test Method : ASTM D 422

Filename : 052

Elevation : ---

Tested by : KAH

Checked by : GTT

## HYDROMETER

Hydrometer ID : 88-18231

Weight of air-dried soil = 26.5 gm

Specific Gravity = 2.69

Hydrosopic Moisture Content :

Weight of Wet Soil = 0 gm

Weight of Dry Soil = 0 gm

Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	24.50	20.50	18.30	0.047	68	0.047
2.00	23.00	20.50	16.80	0.034	62	0.034
4.00	20.50	20.50	14.30	0.024	53	0.024
8.00	19.00	20.50	12.80	0.017	47	0.017
15.00	17.50	20.50	11.30	0.013	42	0.013
30.00	15.00	21.00	9.00	0.009	33	0.009
60.00	13.00	21.00	7.00	0.006	26	0.006
120.00	11.00	21.00	5.00	0.005	19	0.005
240.00	10.00	21.50	4.34	0.003	16	0.003
1190.00	8.50	19.50	1.90	0.002	7	0.002

FINE SIEVE SET					
Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.23	0.23	99
#10	0.079	2.00	0.07	0.30	99
#20	0.033	0.84	0.30	0.60	98
#40	0.017	0.42	0.39	0.99	96
#60	0.010	0.25	0.31	1.30	95
#100	0.006	0.15	0.36	1.66	94
#200	0.003	0.07	0.71	2.37	91
Pan			24.43	26.80	0

Total Dry Weight of Sample = 157.87

D85 : 0.0656 mm

D60 : 0.0310 mm

D50 : 0.0201 mm

D30 : 0.0078 mm

D15 : 0.0030 mm

D10 : 0.0020 mm

## Soil Classification

ASTM Group Symbol : N/A

ASTM Group Name : N/A

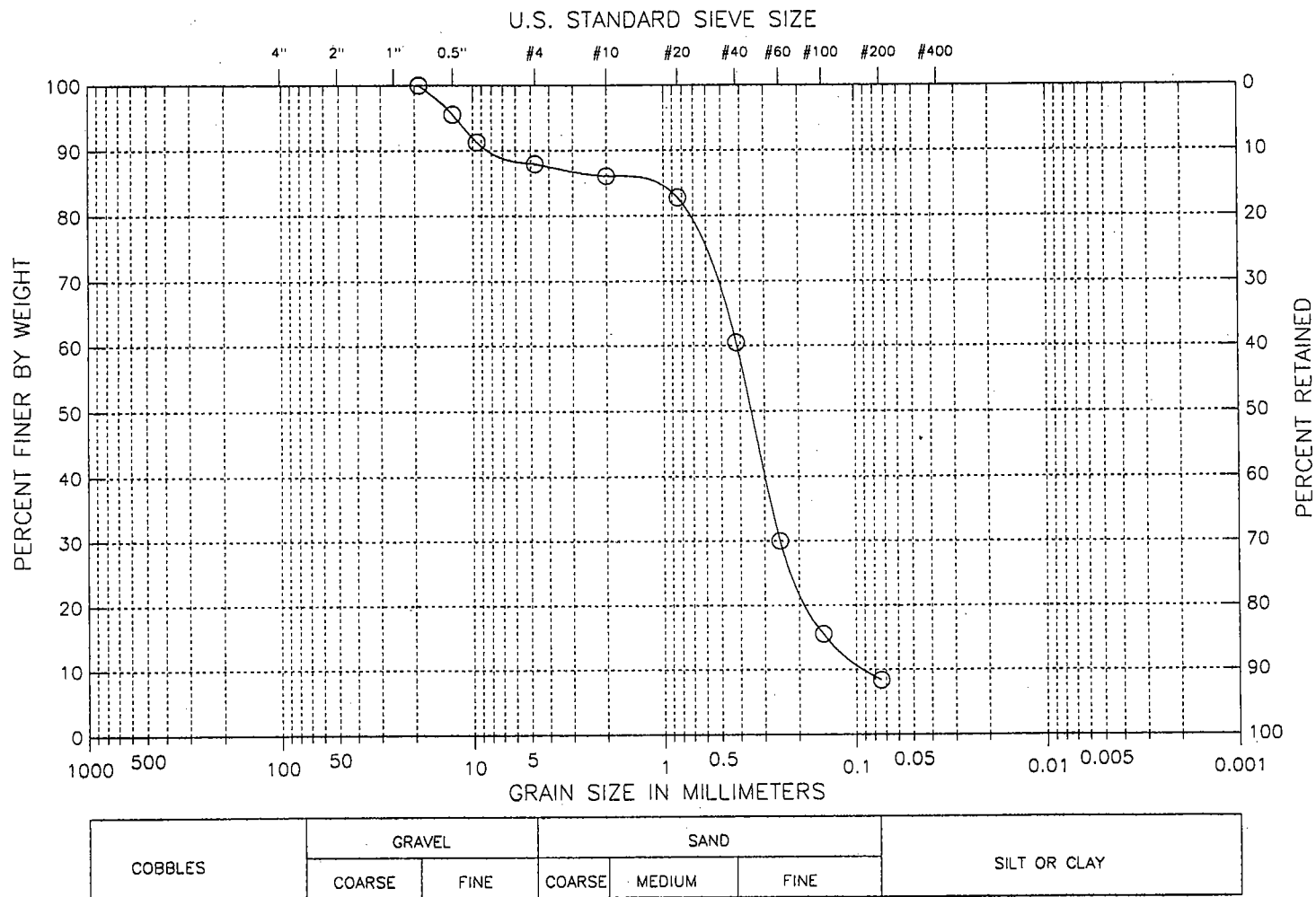
AASHTO Group Symbol : A-4(0)

AASHTO Group Name : Silty Soils

Boring No. : ---  
 Sample No.: DAMU56  
 Test Method ASTM D 422  
 Filename : 053

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-035



Classification :

Visual Description :

Moist, very dark brown sand with organics

Remarks :

Hydrometer not performed, fines <10%

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery

Project No. : GTX-2794

Boring No. : ---

Sample No. : DAMU56

Location : Pownal, VT

Soil Description : Moist, very dark brown sand with organics

Remarks : Hydrometer not performed, fines &lt;10%

Depth : ---

Test Date : 06/21/00

Test Method : ASTM D 422

Filename : 053

Elevation : ---

Tested by : KAH

Checked by : GTT

Sieve Mesh	Sieve Openings		FINE SIEVE SET		Percent Finer (%)
	Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	
0.75"	0.748	19.00	0.00	0.00	100
0.5"	0.500	12.70	3.64	3.64	96
0.375"	0.374	9.51	3.52	7.16	91
#4	0.187	4.75	2.71	9.87	88
#10	0.079	2.00	1.54	11.41	86
#20	0.033	0.84	2.72	14.13	83
#40	0.017	0.42	18.27	32.40	60
#60	0.010	0.25	25.02	57.42	30
#100	0.006	0.15	11.82	69.24	16
#200	0.003	0.07	5.91	75.15	8
Pan			6.85	82.00	0

Total Dry Weight of Sample = 199.25

D85 : 1.5063 mm

D60 : 0.4165 mm

D50 : 0.3514 mm

D30 : 0.2501 mm

D15 : 0.1411 mm

D10 : 0.0868 mm

## Soil Classification

ASTM Group Symbol : N/A

ASTM Group Name : N/A

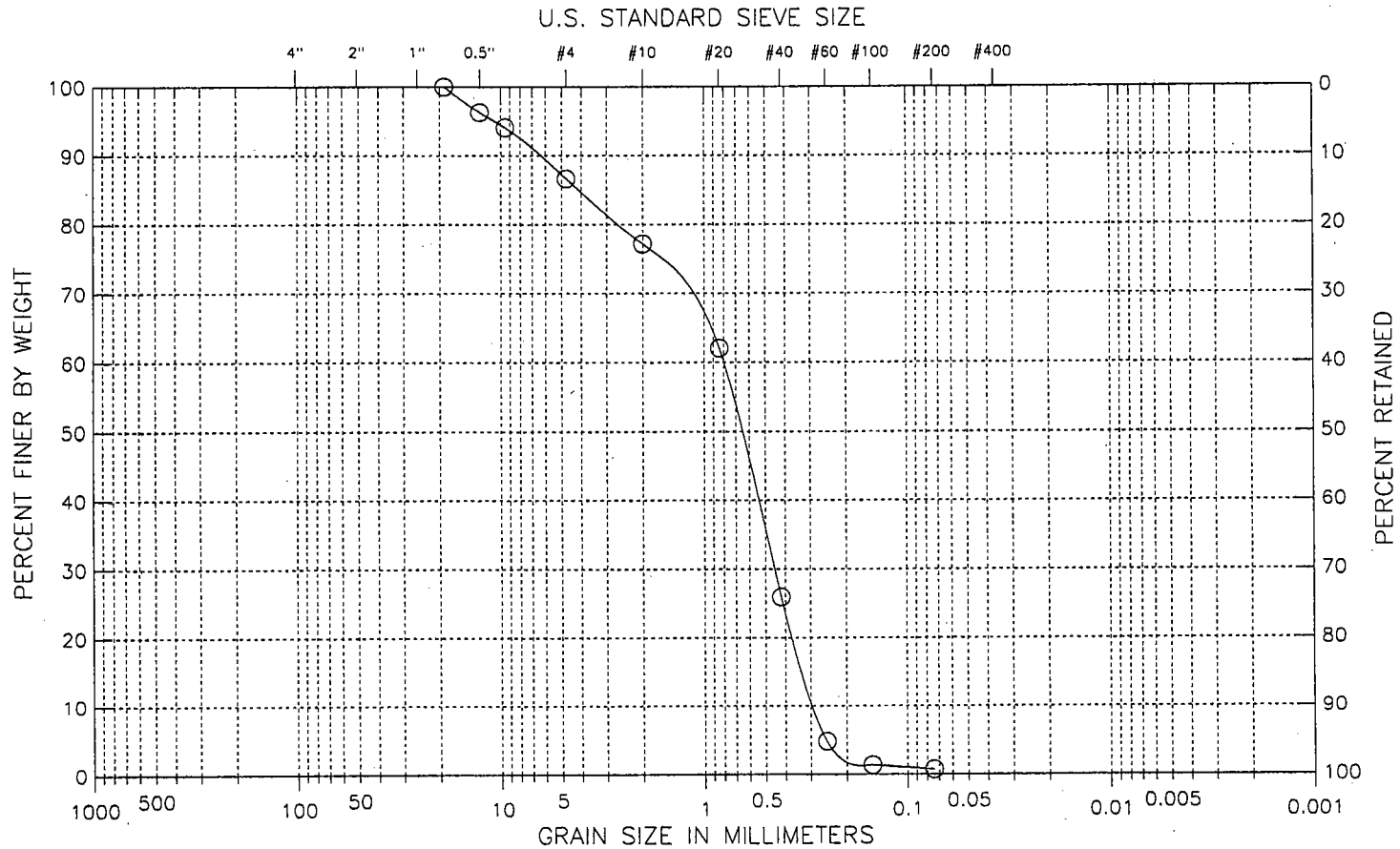
AASHTO Group Symbol : A-3(0)

AASHTO Group Name : Fine Sand

Boring No. : ---  
 Sample No.: DAMU57  
 Test Method ASTM D 422  
 Filename : 054

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-036



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Classification :  
 (SP) Poorly graded sand  
 Visual Description :  
 Wet, very dark gray sand

Remarks :  
 Hydrometer not performed, fines <10%

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery

Project No. : GTX-2794

Boring No. : ---

Sample No. : DAMU57

Location : Pownal, VT

Soil Description : Wet, very dark gray sand

Remarks : Hydrometer not performed, fines &lt;10%

Depth : ---

Test Date : 06/19/00

Test Method : ASTM D 422

Filename : 054

Elevation : ---

Tested by : KAH

Checked by : GTT

Sieve Mesh	Sieve Openings		FINE SIEVE SET		Percent Finer (%)
	Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	
0.75"	0.748	19.00	0.00	0.00	100
0.5"	0.500	12.70	6.72	6.72	96
0.375"	0.374	9.51	3.99	10.71	94
#4	0.187	4.75	13.40	24.11	87
#10	0.079	2.00	17.15	41.26	77
#20	0.033	0.84	27.40	68.66	62
#40	0.017	0.42	65.29	133.95	26
#60	0.010	0.25	38.21	172.16	5
#100	0.006	0.15	6.29	178.45	1
#200	0.003	0.07	1.15	179.60	1
Pan			1.23	180.83	0

Total Dry Weight of Sample = 189.9

D85 : 4.0800 mm

D60 : 0.8088 mm

D50 : 0.6673 mm

D30 : 0.4542 mm

D15 : 0.3212 mm

D10 : 0.2841 mm

## Soil Classification

ASTM Group Symbol : SP

ASTM Group Name : Poorly graded sand

AASHTO Group Symbol : A-1-b(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMU66  
 Location : Pownal, VT  
 Soil Description : Moist, very dark gray sand with silt and organics  
 Remarks : ---

Depth : ---  
 Test Date : 06/27/00  
 Test Method : ASTM D 422

Filename : 055  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 88-18231  
 Weight of air-dried soil = 67.88 gm  
 Specific Gravity = 2.67

## Hydroscopic Moisture Content :

Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	12.50	20.50	6.30	0.051	9	0.051
2.00	11.00	20.50	4.80	0.036	7	0.036
4.00	10.50	20.50	4.30	0.026	6	0.026
8.00	10.00	20.50	3.80	0.018	6	0.018
15.00	9.00	21.00	3.00	0.013	4	0.013
30.00	8.00	21.00	2.00	0.009	3	0.009
60.00	7.00	21.00	1.00	0.007	1	0.007
120.00	6.50	21.50	0.84	0.005	1	0.005
240.00	6.00	21.50	0.34	0.003	0	0.003

Sieve Mesh	Sieve Openings		FINE SIEVE SET		Percent Finer (%)
	Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	
#4	0.187	4.75	-63.54	-63.54	193
#10	0.079	2.00	63.79	0.25	100
#20	0.033	0.84	0.31	0.56	99
#40	0.017	0.42	1.07	1.63	98
#60	0.010	0.25	11.11	12.74	81
#100	0.006	0.15	26.11	38.85	43
#200	0.003	0.07	16.51	55.36	19
Pan			12.77	68.13	0

Total Dry Weight of Sample = 185.67

D85 : 0.2812 mm  
 D60 : 0.1875 mm  
 D50 : 0.1638 mm  
 D30 : 0.1024 mm  
 D15 : 0.0639 mm  
 D10 : 0.0525 mm

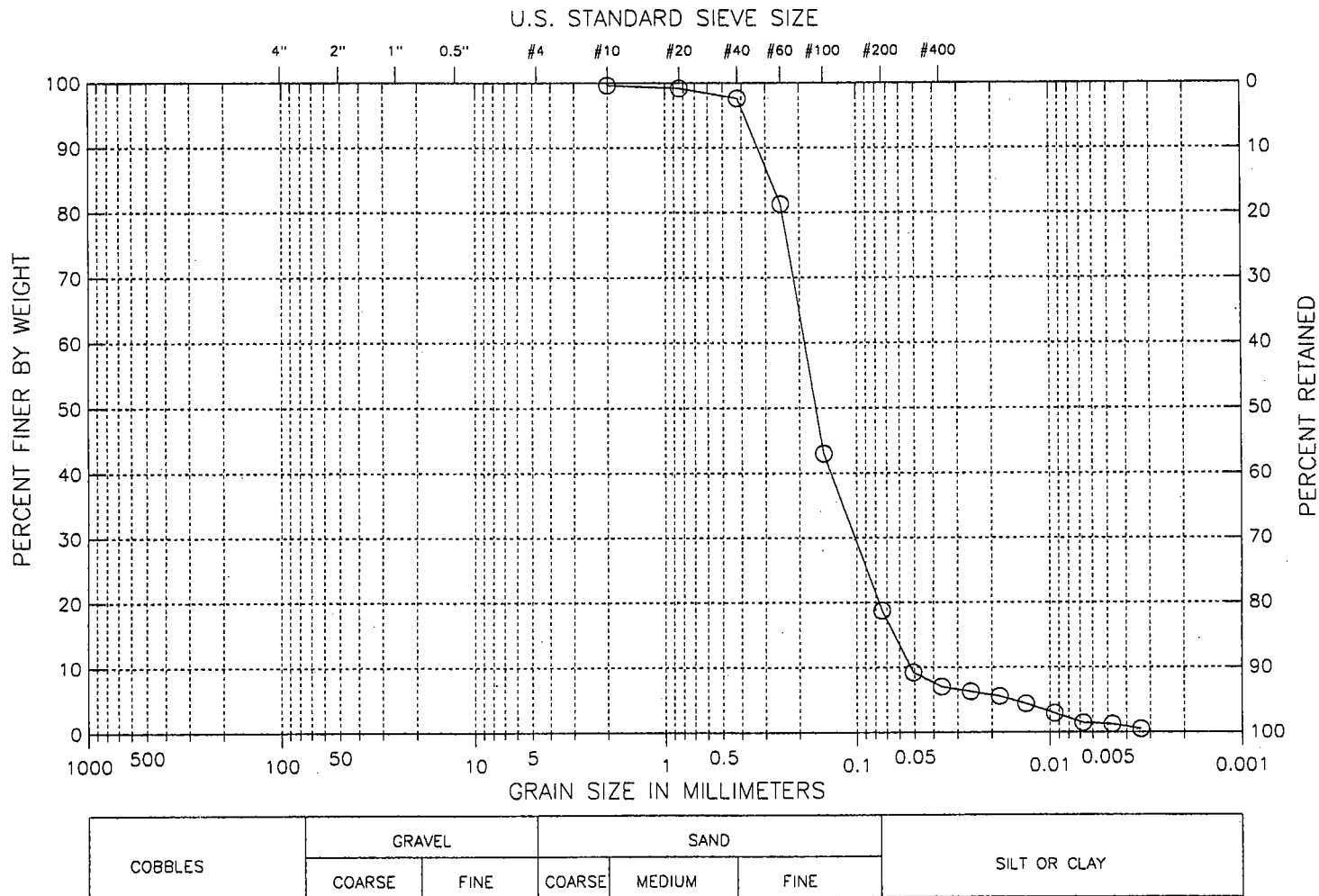
## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-2-4(0)  
 AASHTO Group Name : Silty Gravel and Sand

Boring No. : ---  
 Sample No.: DAMU66  
 Test Method ASTM D 422  
 Filename : 055

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-037



Classification :

Remarks :

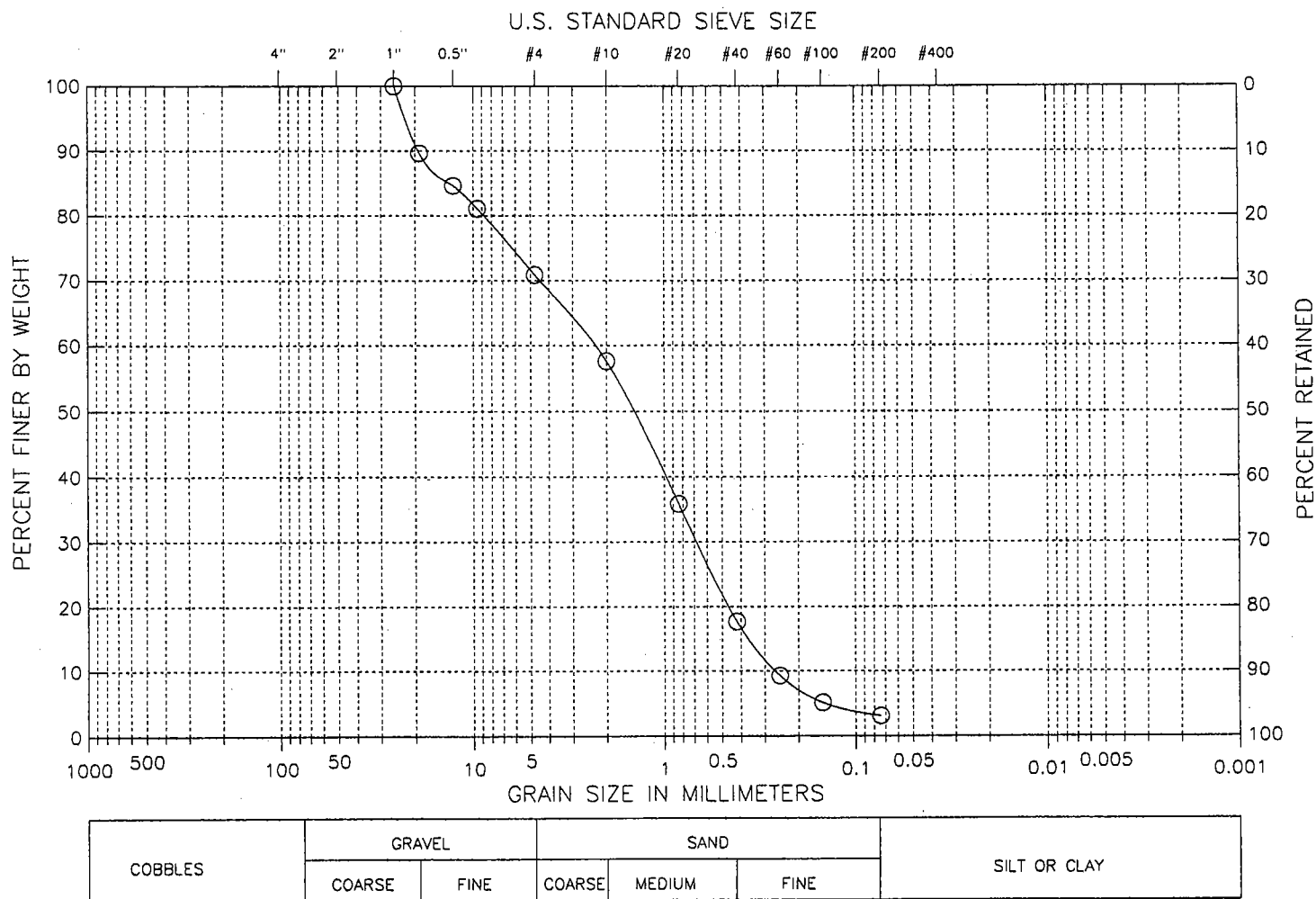
Visual Description :

Moist, very dark gray sand with silt and organics

Boring No. : ---  
 Sample No.: DAMU52  
 Test Method ASTM D 422  
 Filename : 056

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-038



Classification :  
 (SP) Poorly graded sand with gravel  
 Visual Description :  
 Wet, very dark gray sand with organics

Remarks :  
 Hydrometer not performed, fines <10%

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery

Project No. : GTX-2794

Boring No. : ---

Sample No. : DAMU52

Location : Pownal, VT

Soil Description : Wet, very dark gray sand with organics

Remarks : Hydrometer not performed, fines &lt;10%

Depth : ---

Test Date : 06/19/00

Test Method : ASTM D 422

Filename : 056

Elevation : ---

Tested by : KAH

Checked by : GTT

Sieve Mesh	Sieve Openings		FINE SIEVE SET		Percent Finer (%)
	Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	
1"	1.012	25.70	0.00	0.00	100
0.75"	0.748	19.00	21.66	21.66	90
0.5"	0.500	12.70	10.47	32.13	85
0.375"	0.374	9.51	7.40	39.53	81
#4	0.187	4.75	21.32	60.85	71
#10	0.079	2.00	27.62	88.47	58
#20	0.033	0.84	45.60	134.07	36
#40	0.017	0.42	37.90	171.97	18
#60	0.010	0.25	17.58	189.55	9
#100	0.006	0.15	8.60	198.15	5
#200	0.003	0.07	4.30	202.45	3
Pan			6.43	208.88	0

Total Dry Weight of Sample = 218.01

D85 : 13.0960 mm

D60 : 2.3330 mm

D50 : 1.4766 mm

D30 : 0.6732 mm

D15 : 0.3563 mm

D10 : 0.2618 mm

## Soil Classification

ASTM Group Symbol : SP

ASTM Group Name : Poorly graded sand with gravel

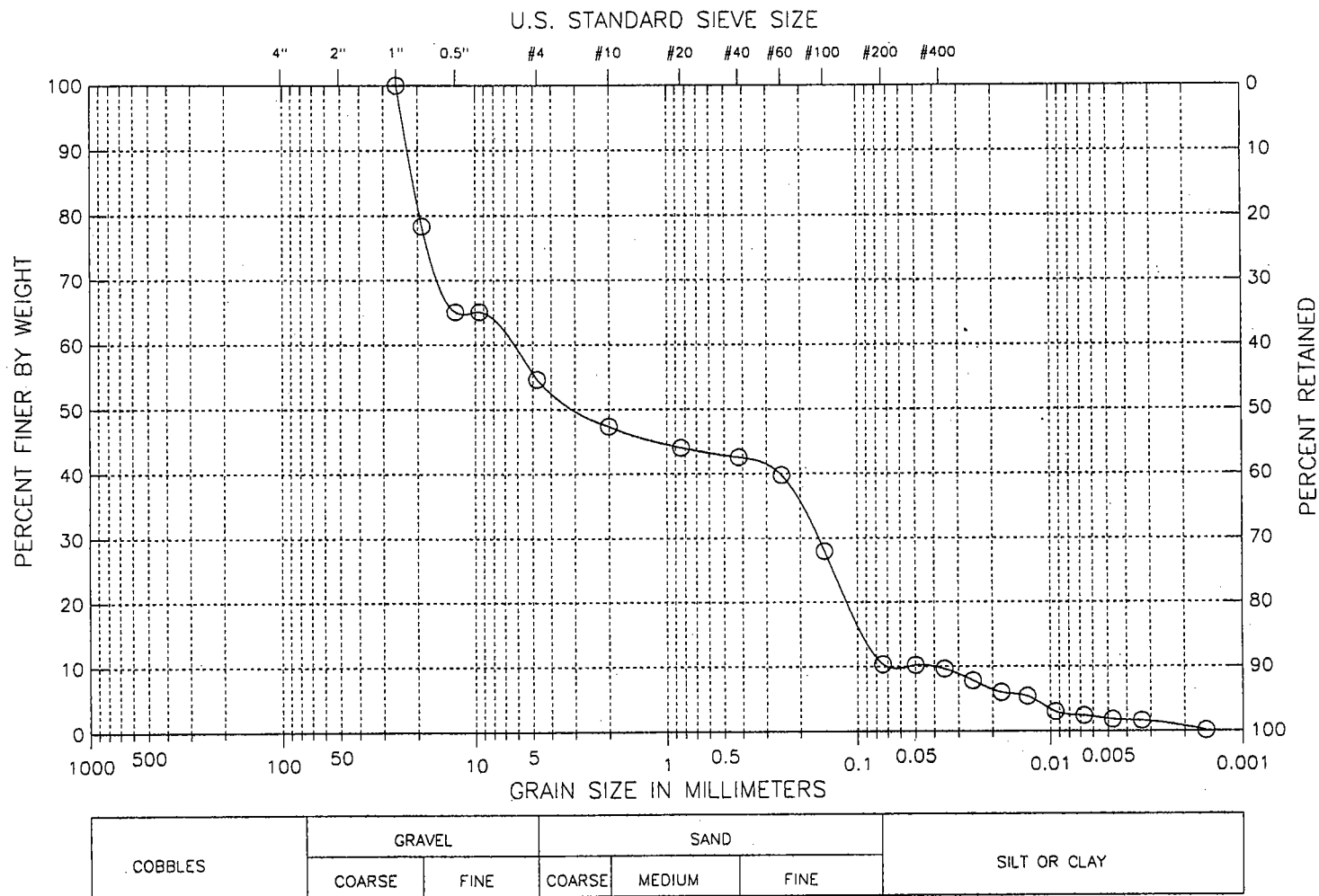
AASHTO Group Symbol : A-1-b(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : ---  
 Sample No.: DAMU63  
 Test Method ASTM D 422  
 Filename : 057

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-039



Classification :

Remarks :

Visual Description :

Wet, dark grayish brown sand with sit and organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMU63  
 Location : Pownal, VT  
 Soil Description : Wet, dark grayish brown sand with sit and organics  
 Remarks : ---

Depth : ---  
 Test Date : 06/27/00  
 Test Method : ASTM D 422

Filename : 057  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 88-18231  
 Weight of air-dried soil = 39.3 gm  
 Specific Gravity = 2.67

Hydroscopic Moisture Content :  
 Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	14.50	21.00	8.50	0.050	10	0.050
2.00	14.00	21.00	8.00	0.035	10	0.035
4.00	12.50	21.00	6.50	0.025	8	0.025
8.00	11.00	21.00	5.00	0.018	6	0.018
15.00	10.50	21.00	4.50	0.013	5	0.013
30.00	8.50	21.00	2.50	0.009	3	0.009
60.00	8.00	21.00	2.00	0.007	2	0.007
120.00	7.50	21.00	1.50	0.005	2	0.005
240.00	7.00	21.50	1.34	0.003	2	0.003
1162.00	6.50	20.00	0.10	0.002	0	0.002

FINE SIEVE SET					
Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
1"	1.012	25.70	0.00	0.00	100
0.75"	0.748	19.00	16.11	16.11	78
0.5"	0.500	12.70	9.90	26.01	65
0.375"	0.374	9.51	0.00	26.01	65
#4	0.187	4.75	7.76	33.77	55
#10	0.079	2.00	5.43	39.20	47
#20	0.033	0.84	2.51	41.71	44
#40	0.017	0.42	1.11	42.82	43
#60	0.010	0.25	2.06	44.88	40
#100	0.006	0.15	8.78	53.66	28
#200	0.003	0.07	13.12	66.78	10
Pan			7.70	74.48	0

Total Dry Weight of Sample = 84.13

D85 : 20.8431 mm  
 D60 : 6.7802 mm  
 D50 : 2.7329 mm  
 D30 : 0.1630 mm  
 D15 : 0.0891 mm  
 D10 : 0.0442 mm

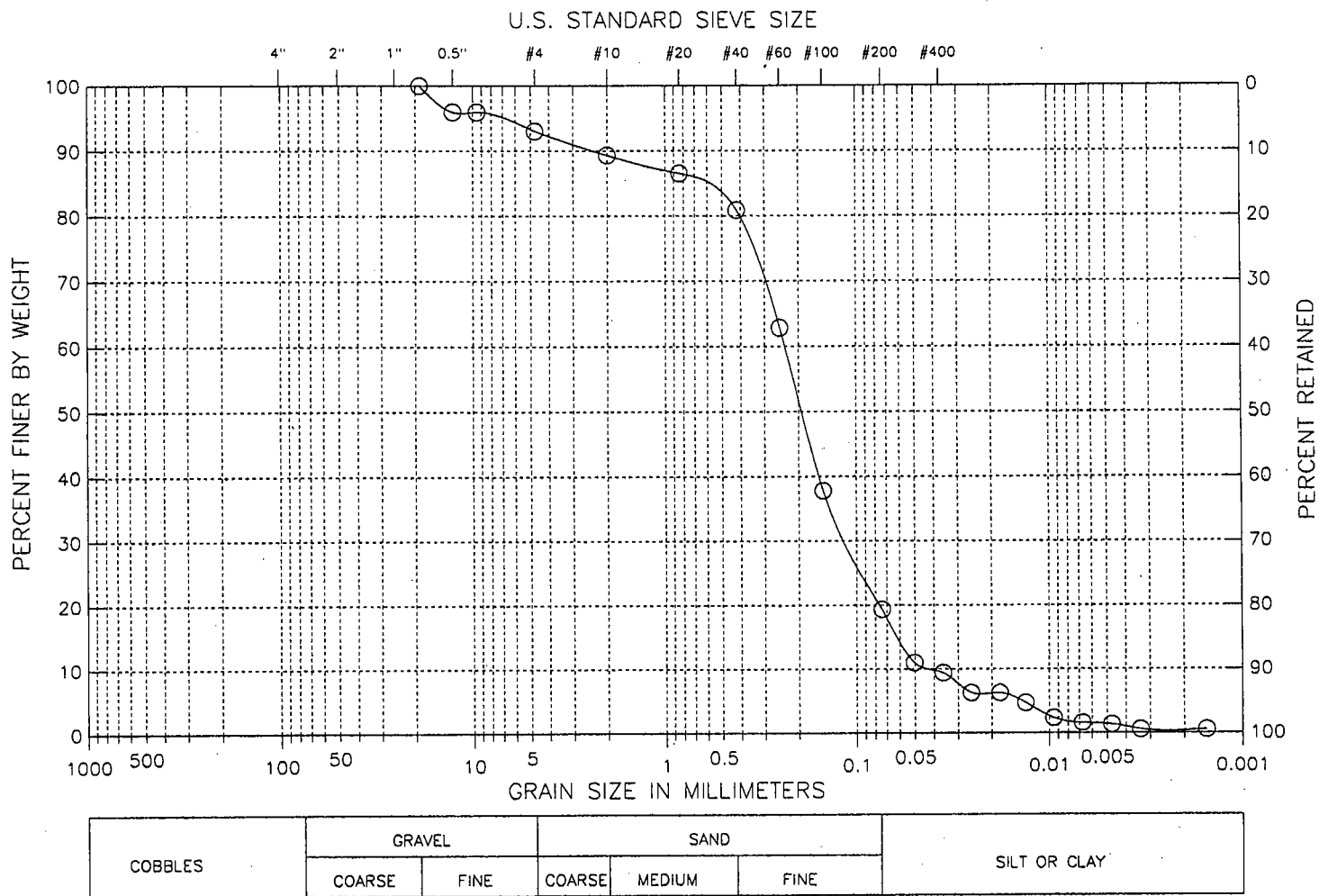
## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-1-b(0)  
 AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : ---  
 Sample No.: DAMU62  
 Test Method ASTM D 422  
 Filename : 058

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-040



Classification :

Remarks :

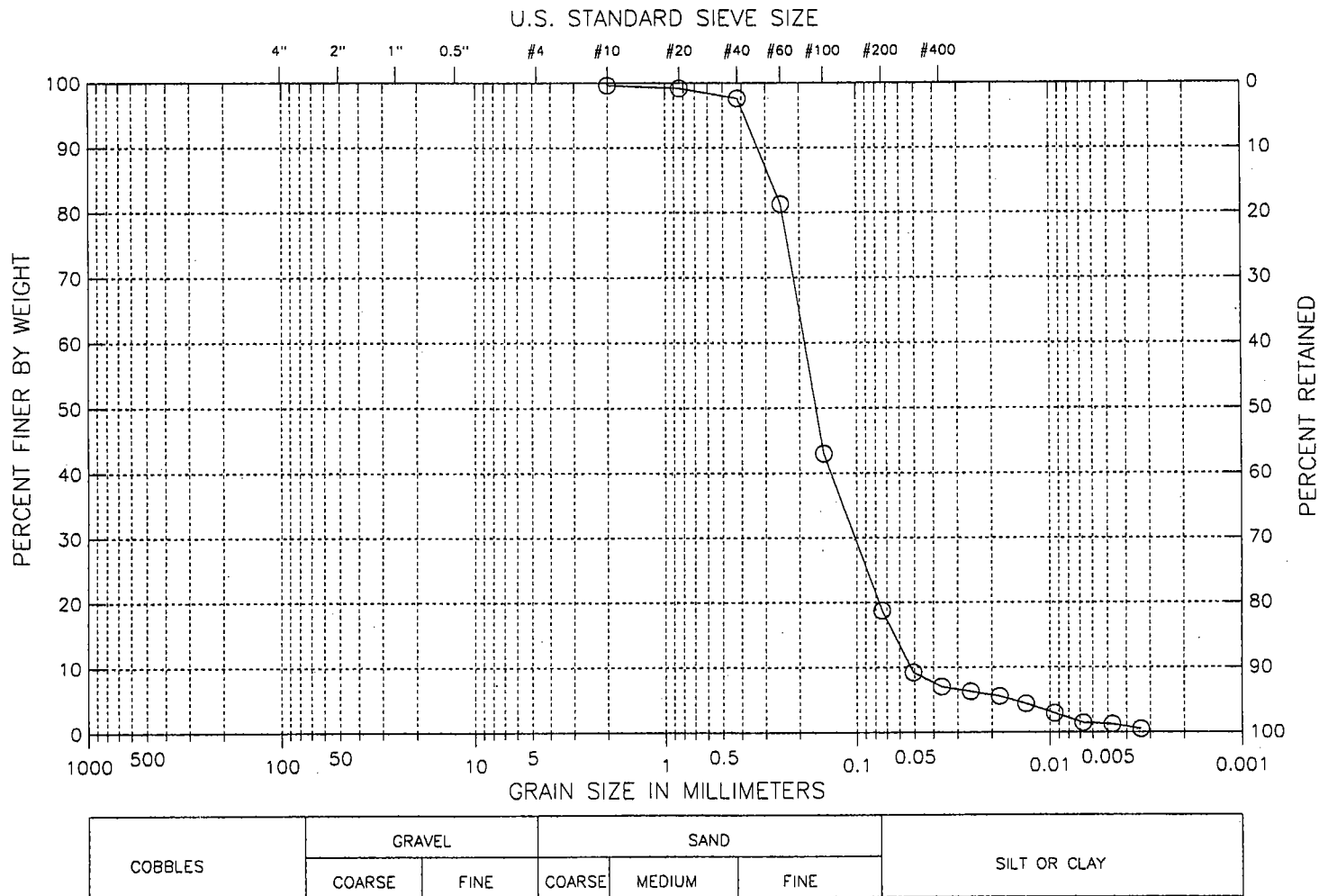
Visual Description :

Wet, very dark gray sand with silt and organics

Boring No. : ---  
 Sample No.: DAMU66  
 Test Method ASTM D 422  
 Filename : 055

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-037



Classification :

Remarks :

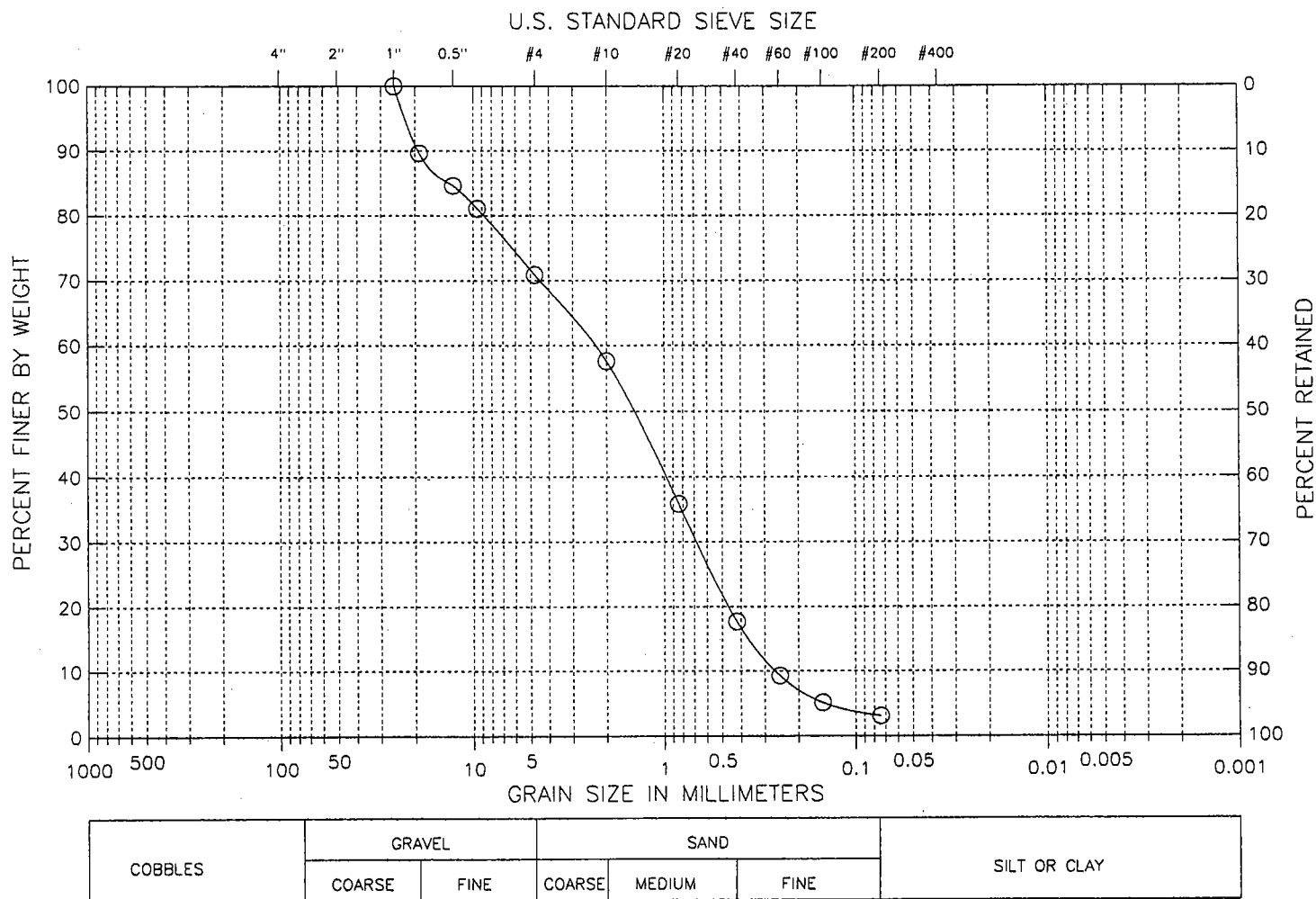
Visual Description :

Moist, very dark gray sand with silt and organics

Boring No. : ---  
 Sample No.: DAMU52  
 Test Method ASTM D 422  
 Filename : 056

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-038



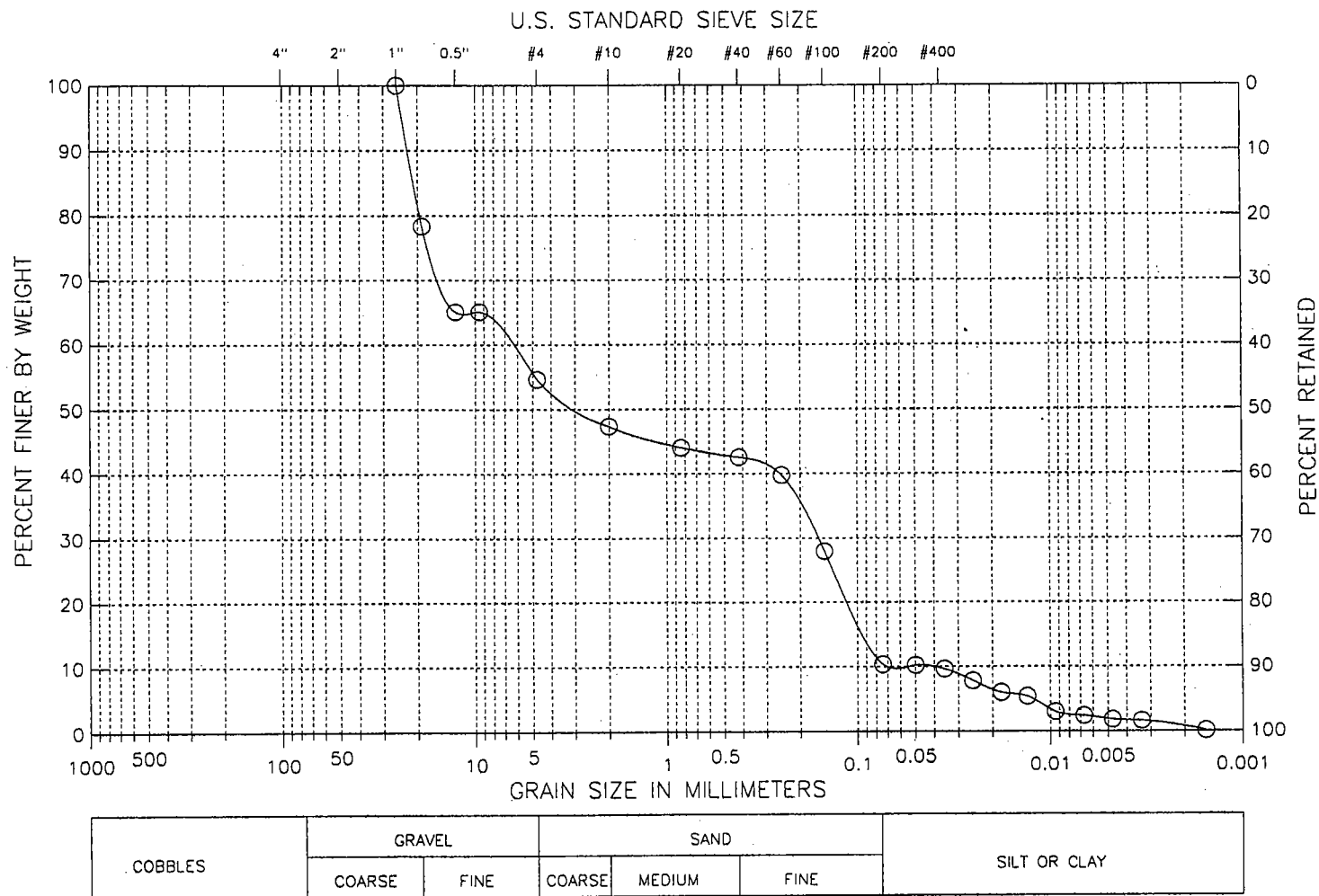
Classification :  
 (SP) Poorly graded sand with gravel  
 Visual Description :  
 Wet, very dark gray sand with organics

Remarks :  
 Hydrometer not performed, fines <10%

Boring No. : ---  
 Sample No.: DAMU63  
 Test Method ASTM D 422  
 Filename : 057

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-039



Classification :

Remarks :

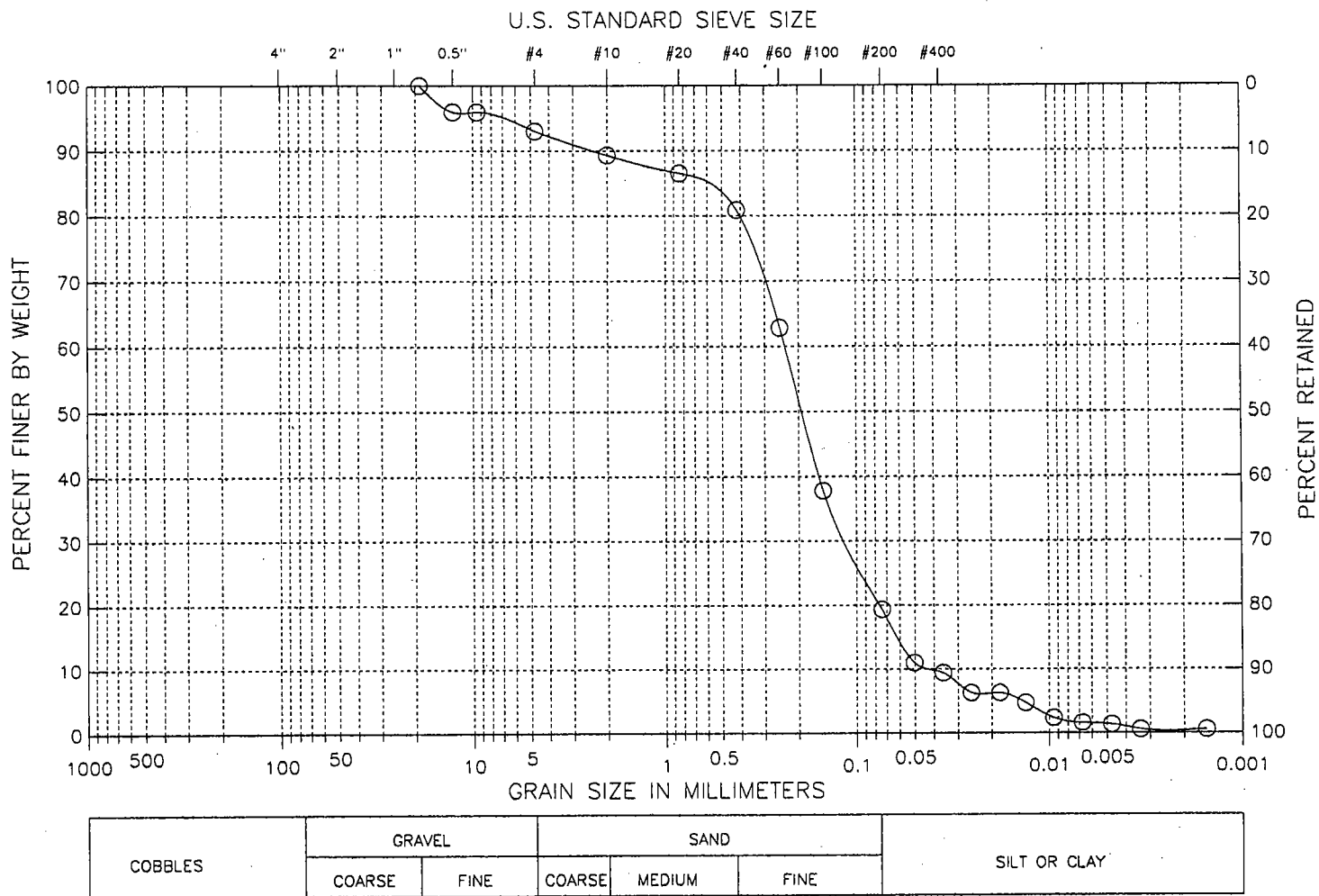
Visual Description :

Wet, dark grayish brown sand with sit and organics

Boring No. : ---  
 Sample No.: DAMU62  
 Test Method ASTM D 422  
 Filename : 058

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-040



Classification :

Remarks :

Visual Description :

Wet, very dark gray sand with silt and organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMU62  
 Location : Pownal, VT  
 Soil Description : Wet, very dark gray sand with silt and organics  
 Remarks : ---

Depth : ---  
 Test Date : 06/21/00  
 Test Method : ASTM D 422

Filename : 058  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 88-18231  
 Weight of air-dried soil = 56.88 gm  
 Specific Gravity = 2.67

## Hydroscopic Moisture Content :

Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	13.00	21.00	7.00	0.050	11	0.050
2.00	12.00	21.00	6.00	0.036	9	0.036
4.00	10.00	21.00	4.00	0.026	6	0.026
8.00	10.00	21.00	4.00	0.018	6	0.018
15.00	9.00	21.00	3.00	0.013	5	0.013
30.00	7.50	21.00	1.50	0.009	2	0.009
60.00	7.00	21.00	1.00	0.007	2	0.007
120.00	6.50	21.50	0.84	0.005	1	0.005
240.00	6.00	21.50	0.34	0.003	1	0.003
1153.00	6.00	21.50	0.34	0.002	1	0.002

FINE SIEVE SET					
Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
0.75"	0.748	19.00	0.00	0.00	100
0.5"	0.500	12.70	2.57	2.57	96
0.375"	0.374	9.51	0.00	2.57	96
#4	0.187	4.75	1.88	4.45	93
#10	0.079	2.00	2.36	6.81	89
#20	0.033	0.84	1.76	8.57	87
#40	0.017	0.42	3.62	12.19	81
#60	0.010	0.25	11.48	23.67	63
#100	0.006	0.15	15.94	39.61	38
#200	0.003	0.07	11.76	51.37	19
Pan			12.32	63.69	0

Total Dry Weight of Sample = 73.28

D85 : 0.6964 mm  
 D60 : 0.2358 mm  
 D50 : 0.1917 mm  
 D30 : 0.1108 mm  
 D15 : 0.0607 mm  
 D10 : 0.0409 mm

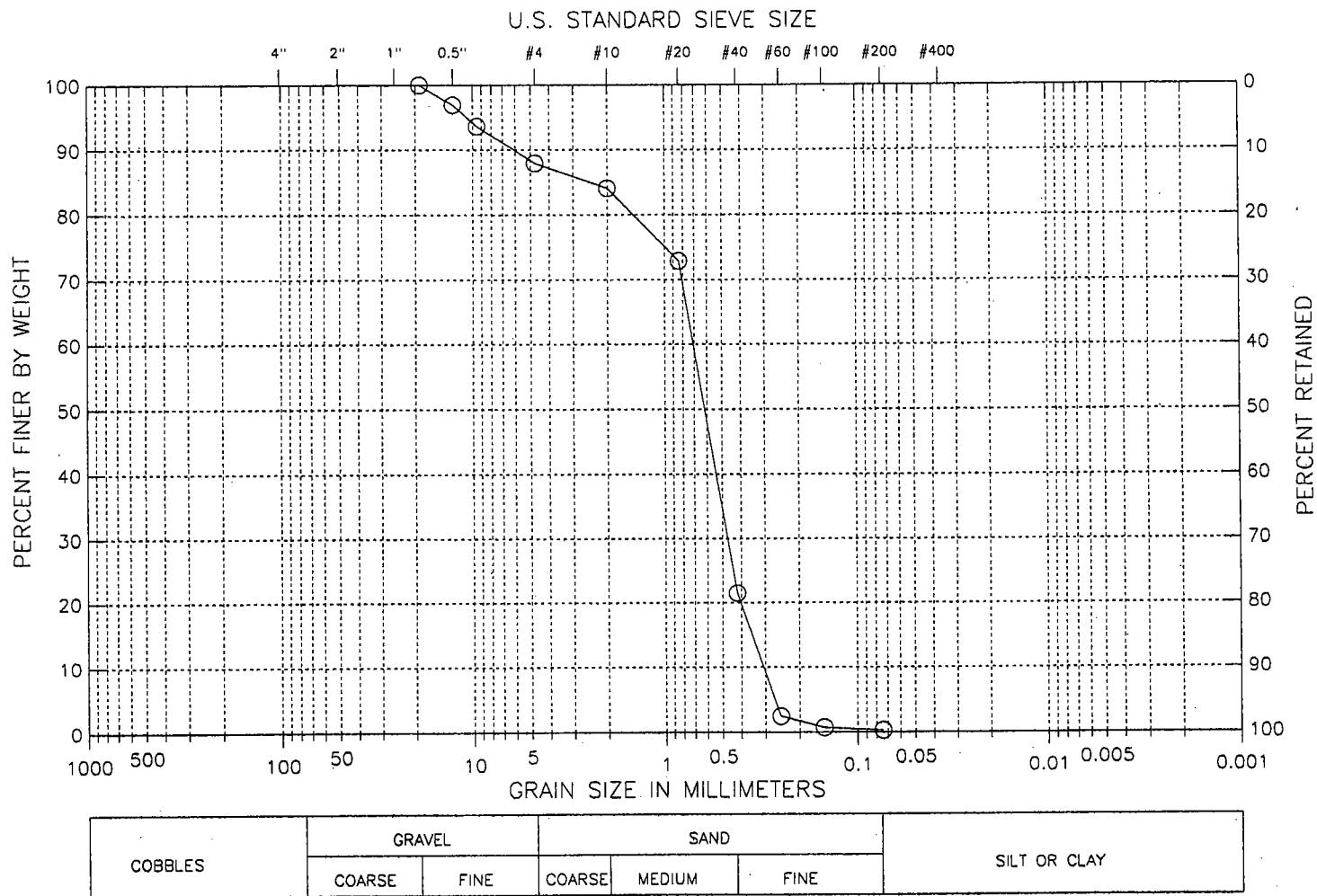
## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-2-4(0)  
 AASHTO Group Name : Silty Gravel and Sand

Boring No. : ---  
 Sample No.: DAMU53  
 Test Method ASTM D 422  
 Filename : 059

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-041



Classification :  
 (SP) Poorly graded sand  
 Visual Description :  
 Saturated, very dark gray sand

Remarks :  
 Hydrometer not performed, fines <10%

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery

Project No. : GTX-2794

Boring No. : ---

Sample No. : DAMU53

Location : Pownal, VT

Soil Description : Saturated, very dark gray sand

Remarks : Hydrometer not performed, fines &lt;10%

Depth : ---

Test Date : 06/19/00

Test Method : ASTM D 422

Filename : 059

Elevation : ---

Tested by : KAH

Checked by : GTT

Sieve Mesh	Sieve Openings		FINE SIEVE SET		Percent Finer (%)
	Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	
0.75"	0.748	19.00	0.00	0.00	100
0.5"	0.500	12.70	3.71	3.71	97
0.375"	0.374	9.51	3.96	7.67	94
#4	0.187	4.75	6.87	14.54	88
#10	0.079	2.00	4.70	19.24	84
#20	0.033	0.84	13.50	32.74	73
#40	0.017	0.42	62.07	94.81	21
#60	0.010	0.25	23.04	117.85	2
#100	0.006	0.15	2.09	119.94	1
#200	0.003	0.07	0.51	120.45	0
Pan			0.31	120.76	0

Total Dry Weight of Sample = 130.41

D85 : 2.4605 mm

D60 : 0.7066 mm

D50 : 0.6173 mm

D30 : 0.4712 mm

D15 : 0.3521 mm

D10 : 0.3073 mm

## Soil Classification

ASTM Group Symbol : SP

ASTM Group Name : Poorly graded sand

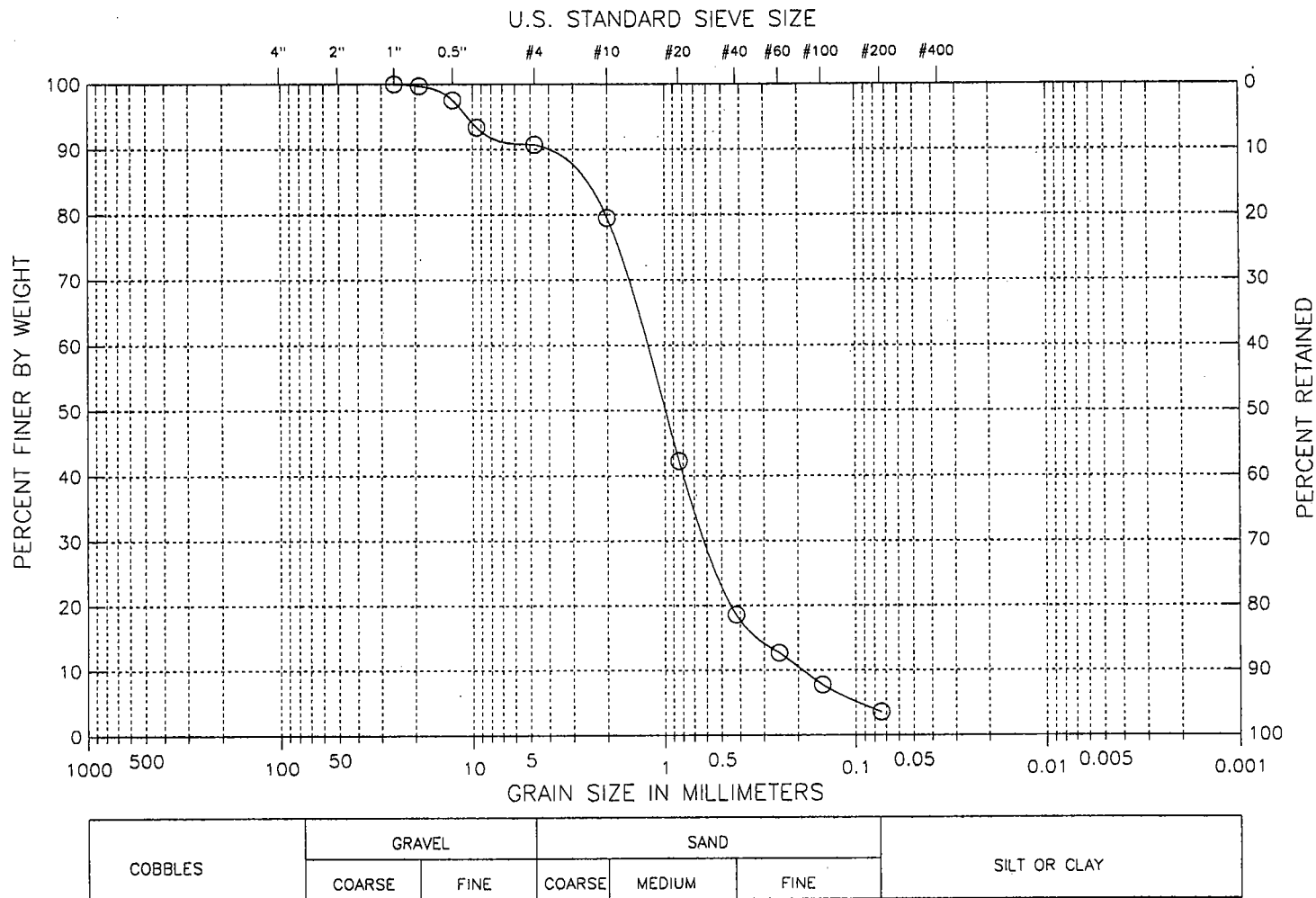
AASHTO Group Symbol : A-1-b(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : ---  
 Sample No.: DAMU87  
 Test Method ASTM D 422  
 Filename : 060

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-042



Classification :  
 (SW) Well-graded sand  
 Visual Description :  
 Wet, dark greenish gray sand

Remarks :  
 Hydrometer not performed, fines <10%

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery

Project No. : GTX-2794

Boring No. : ---

Sample No. : DAMU87

Location : Pownal, VT

Soil Description : Wet, dark greenish gray sand

Remarks : Hydrometer not performed, fines &lt;10%

Depth : ---

Test Date : 06/27/00

Test Method : ASTM D 422

Filename : 060

Elevation : ---

Tested by : KAH

Checked by : GTT

Sieve Mesh	Sieve Openings		FINE SIEVE SET		Percent Finer (%)
	Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	
1"	1.012	25.70	0.00	0.00	100
0.75"	0.748	19.00	0.22	0.22	100
0.5"	0.500	12.70	1.60	1.82	98
0.375"	0.374	9.51	3.09	4.91	93
#4	0.187	4.75	1.93	6.84	91
#10	0.079	2.00	8.27	15.11	80
#20	0.033	0.84	27.46	42.57	42
#40	0.017	0.42	17.45	60.02	19
#60	0.010	0.25	4.36	64.38	13
#100	0.006	0.15	3.63	68.01	8
#200	0.003	0.07	3.07	71.08	4
Pan			2.63	73.71	0

Total Dry Weight of Sample = 83.28

D85 : 3.0560 mm

D60 : 1.2708 mm

D50 : 1.0072 mm

D30 : 0.5872 mm

D15 : 0.3070 mm

D10 : 0.1891 mm

## Soil Classification

ASTM Group Symbol : SW

ASTM Group Name : Well-graded sand

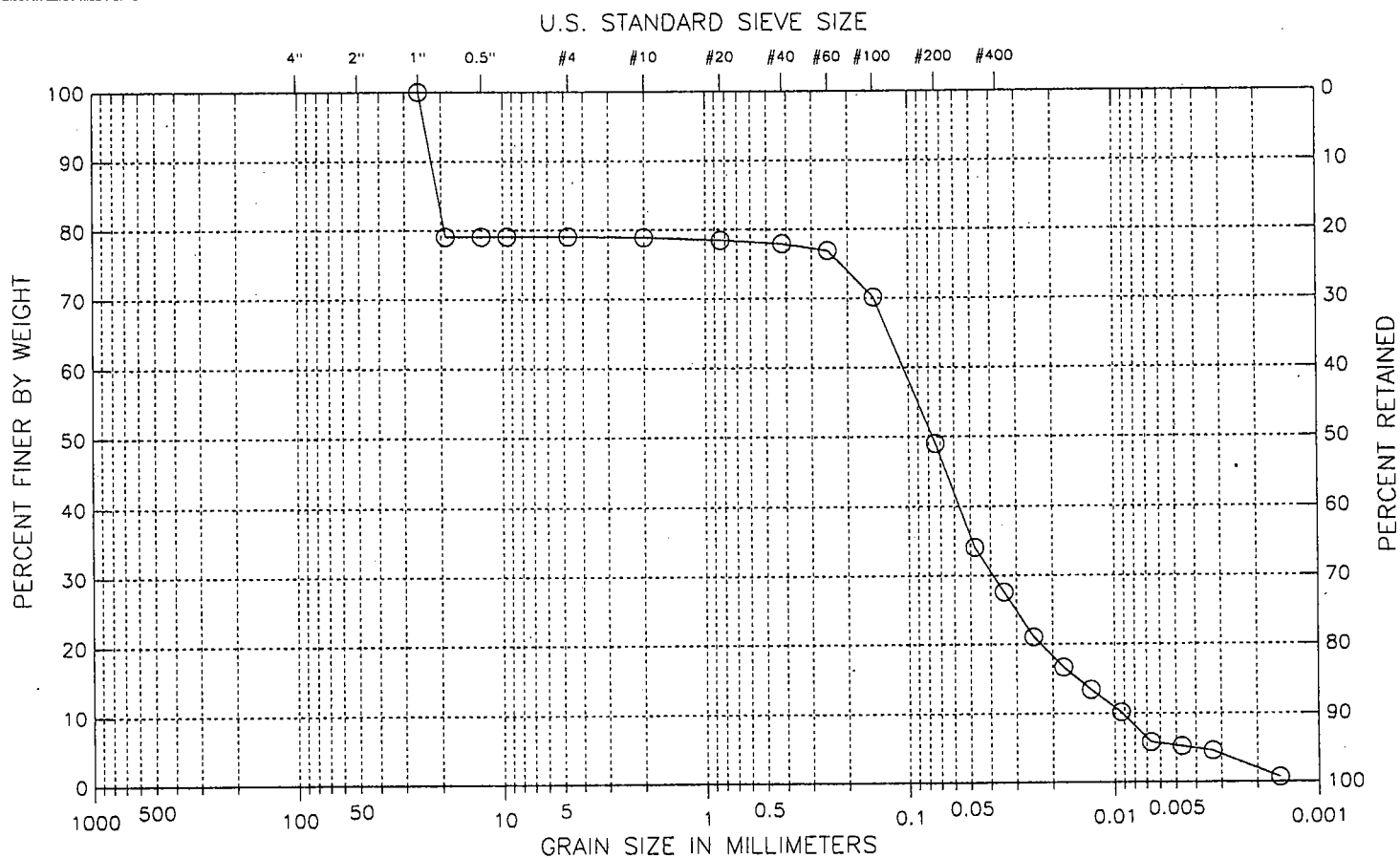
AASHTO Group Symbol : A-1-b(0)

AASHTO Group Name : Stone Fragments, Gravel and Sand

Boring No. : ---  
 Sample No.: DAMU64  
 Test Method ASTM D 422  
 Filename : 061

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-043



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Classification :

Remarks :

Visual Description :

Saturated, black sandy clay w/ organics & gravel

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMU64  
 Location : Pownal, VT  
 Soil Description : Saturated, black sandy clay w/ orgacnis & gravel  
 Remarks : ---

Depth : ---  
 Test Date : 06/26/00  
 Test Method : ASTM D 422

Filename : 061  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 583901  
 Weight of air-dried soil = 36.06 gm  
 Specific Gravity = 2.69

Hydroscopic Moisture Content :  
 Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	22.00	20.50	15.68	0.048	34	0.048
2.00	19.00	20.50	12.68	0.034	28	0.034
4.00	16.00	20.50	9.68	0.025	21	0.025
8.00	14.00	20.50	7.68	0.018	17	0.018
15.00	12.50	20.50	6.18	0.013	13	0.013
30.00	11.00	20.50	4.68	0.009	10	0.009
60.00	9.00	20.50	2.68	0.007	6	0.007
120.00	8.50	21.00	2.40	0.005	5	0.005
240.00	8.00	21.50	2.10	0.003	5	0.003
1180.00	7.50	18.50	0.30	0.002	1	0.002

FINE SIEVE SET					
Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
1"	1.012	25.70	0.00	0.00	100
0.75"	0.748	19.00	9.56	9.56	79
0.5"	0.500	12.70	0.00	9.56	79
0.375"	0.374	9.51	0.00	9.56	79
#4	0.187	4.75	0.00	9.56	79
#10	0.079	2.00	0.07	9.63	79
#20	0.033	0.84	0.21	9.84	78
#40	0.017	0.42	0.24	10.08	78
#60	0.010	0.25	0.46	10.54	77
#100	0.006	0.15	3.10	13.64	70
#200	0.003	0.07	9.65	23.29	49
Pan			22.40	45.69	0

Total Dry Weight of Sample = 54.91

D85 : 20.6962 mm  
 D60 : 0.1065 mm  
 D50 : 0.0764 mm  
 D30 : 0.0389 mm  
 D15 : 0.0151 mm  
 D10 : 0.0092 mm

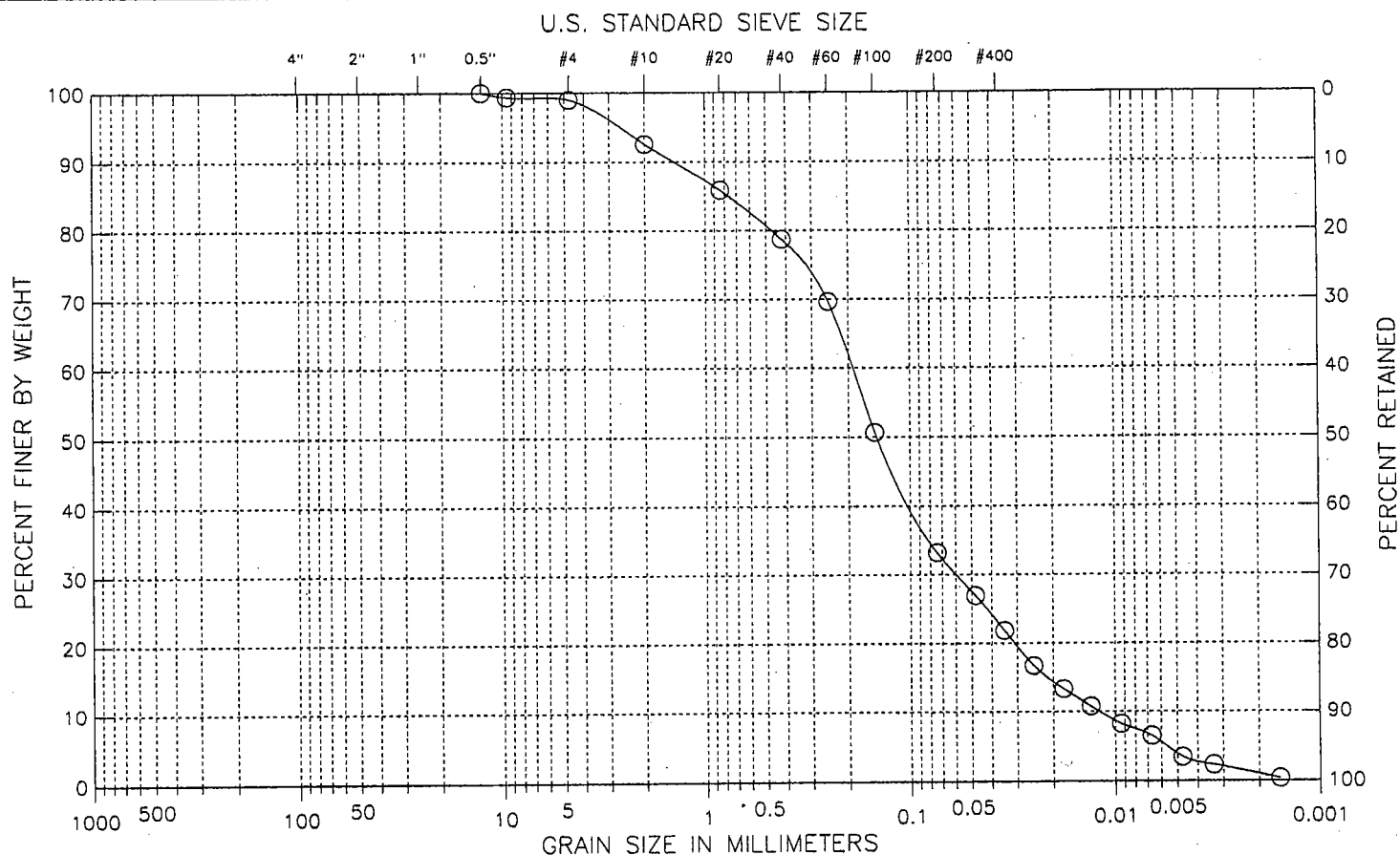
## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-4(0)  
 AASHTO Group Name : Silty Soils

Boring No. : ---  
 Sample No: DAMV95  
 Test Method ASTM D 422  
 Filename : 062

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-044



COBBLES	GRAVEL		SAND			SILT OR CLAY
	COARSE	FINE	COARSE	MEDIUM	FINE	

Classification :

Remarks :

Visual Description :

Moist, dark brown silty sand with organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMV95  
 Location : Pownal, VT  
 Soil Description : Moist, dark brown silty sand with organics  
 Remarks : ---

Depth : ---  
 Test Date : 06/26/00  
 Test Method : ASTM D 422

Filename : 062  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 88-18231  
 Weight of air-dried soil = 54.09 gm  
 Specific Gravity = 2.67

Hydroscopic Moisture Content :  
 Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	22.00	20.50	15.80	0.048	27	0.048
2.00	19.00	20.50	12.80	0.035	22	0.035
4.00	16.00	20.50	9.80	0.025	17	0.025
8.00	14.00	20.50	7.80	0.018	13	0.018
15.00	12.50	20.50	6.30	0.013	11	0.013
30.00	11.00	20.50	4.80	0.009	8	0.009
60.00	10.00	20.50	3.80	0.007	6	0.007
120.00	8.00	21.00	2.00	0.005	3	0.005
240.00	7.00	21.50	1.34	0.003	2	0.003
1144.00	7.00	19.00	0.20	0.002	0	0.002

FINE SIEVE SET					
Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
0.5"	0.500	12.70	0.00	0.00	100
0.375"	0.374	9.51	0.38	0.38	99
#4	0.187	4.75	0.21	0.59	99
#10	0.079	2.00	3.74	4.33	93
#20	0.033	0.84	3.92	8.25	86
#40	0.017	0.42	4.17	12.42	79
#60	0.010	0.25	5.30	17.72	70
#100	0.006	0.15	11.09	28.81	51
#200	0.003	0.07	10.21	39.02	33
Pan			19.40	58.42	0

Total Dry Weight of Sample = 67.99

D85 : 0.7721 mm  
 D60 : 0.1921 mm  
 D50 : 0.1450 mm  
 D30 : 0.0592 mm  
 D15 : 0.0210 mm  
 D10 : 0.0119 mm

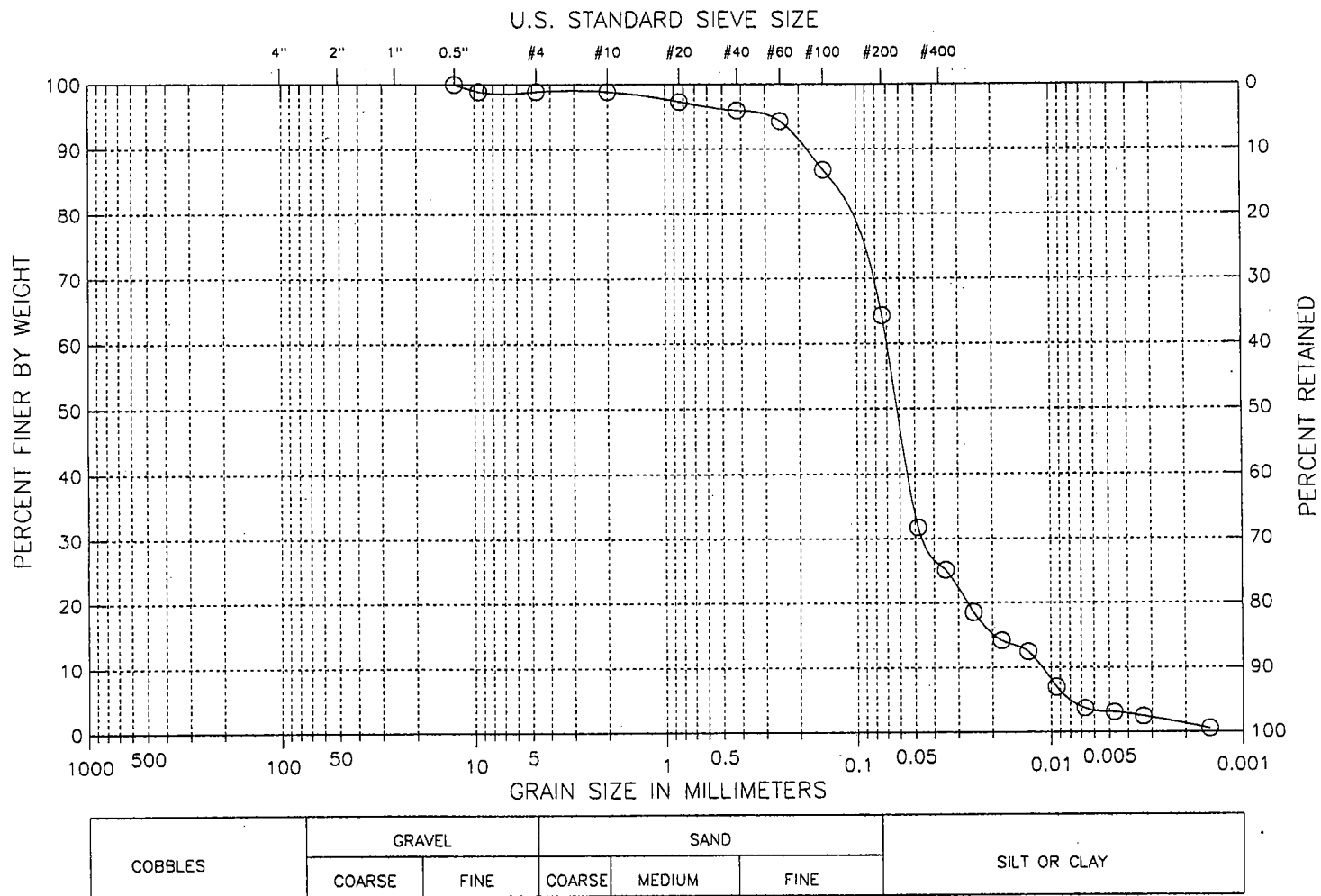
## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-2-4(0)  
 AASHTO Group Name : Silty Gravel and Sand

Boring No. : ---  
 Sample No.: DAMW06  
 Test Method ASTM D 422  
 Filename : 063

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30, 2000

SD 045



Classification :

Remarks :

Visual Description :

Moist, dark brown sandy clay with organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMW06  
 Location : Pownal, VT  
 Soil Description : Moist, dark brown sandy clay with organics  
 Remarks : ---

Depth : ---  
 Test Date : 06/22/00  
 Test Method : ASTM D 422

Filename : 063  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 583901  
 Weight of air-dried soil = 44.71 gm  
 Specific Gravity = 2.69

## Hydroscopic Moisture Content :

Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	21.00	20.00	14.46	0.048	32	0.048
2.00	18.00	20.00	11.46	0.035	25	0.035
4.00	15.00	20.00	8.46	0.025	19	0.025
8.00	13.00	20.00	6.46	0.018	14	0.018
15.00	12.00	20.50	5.68	0.013	12	0.013
30.00	9.50	20.50	3.18	0.009	7	0.009
60.00	8.00	20.50	1.68	0.007	4	0.007
120.00	7.50	21.00	1.40	0.005	3	0.005
240.00	7.00	21.50	1.10	0.003	2	0.003
1245.00	7.00	19.50	0.24	0.001	1	0.001

FINE SIEVE SET					
Sieve Mesh	Sieve Openings		Weight Retained (gm)	Cumulative Weight Retained (gm)	Percent Finer (%)
	Inches	Millimeters			
0.5"	0.500	12.70	0.00	0.00	100
0.375"	0.374	9.51	0.50	0.50	99
#4	0.187	4.75	0.00	0.50	99
#10	0.079	2.00	0.02	0.52	99
#20	0.033	0.84	0.71	1.23	97
#40	0.017	0.42	0.60	1.83	96
#60	0.010	0.25	0.74	2.57	94
#100	0.006	0.15	3.40	5.97	87
#200	0.003	0.07	10.18	16.15	64
Pan			29.08	45.23	0

Total Dry Weight of Sample = 54.08

D85 : 0.1409 mm  
 D60 : 0.0700 mm  
 D50 : 0.0614 mm  
 D30 : 0.0443 mm  
 D15 : 0.0191 mm  
 D10 : 0.0113 mm

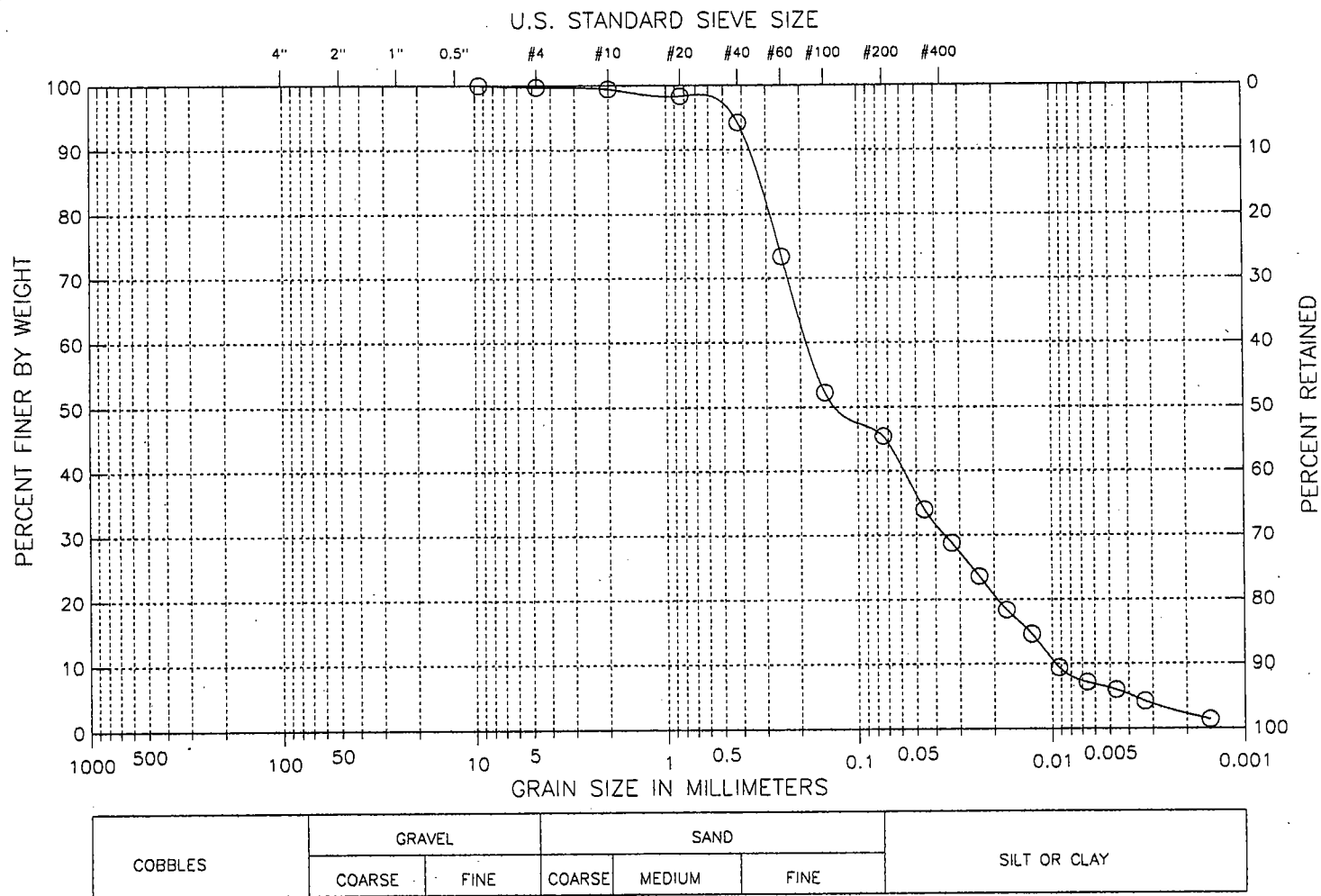
## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-4(0)  
 AASHTO Group Name : Silty Soils

Boring No. : ---  
 Sample No: DAMU83  
 Test Method ASTM D 422  
 Filename : 064

Project : Pownal Tannery  
 Project No.: GTX-2794  
 Location: Pownal, VT  
 Date : Fri Jun 30 2000

SD-0L4C



Classification :

Remarks :

Visual Description :

Saturated, dark brown clayey sand with organics

## GEOTECHNICAL LABORATORY TEST DATA

Project : Pownal Tannery  
 Project No. : GTX-2794  
 Boring No. : ---  
 Sample No. : DAMU83  
 Location : Pownal, VT  
 Soil Description : Saturated, dark brown clayey sand with organics  
 Remarks : ---

Depth : ---  
 Test Date : 06/26/00  
 Test Method : ASTM D 422

Filename : 064  
 Elevation : ---  
 Tested by : KAH  
 Checked by : GTT

## HYDROMETER

Hydrometer ID : 88-18231  
 Weight of air-dried soil = 66.23 gm  
 Specific Gravity = 2.69

Hydrosopic Moisture Content :  
 Weight of Wet Soil = 0 gm  
 Weight of Dry Soil = 0 gm  
 Moisture Content = 0

Elapsed Time (min)	Reading	Temperature (deg. C)	Corrected Reading	Particle Size (mm)	Percent Finer (%)	Adjusted Particle Size
1.00	29.00	20.50	22.80	0.046	34	0.046
2.00	25.50	20.50	19.30	0.033	29	0.033
4.00	22.00	20.50	15.80	0.024	24	0.024
8.00	18.50	20.50	12.30	0.017	18	0.017
15.00	16.00	20.50	9.80	0.013	15	0.013
30.00	12.50	20.50	6.30	0.009	9	0.009
60.00	11.00	20.50	4.80	0.007	7	0.007
120.00	10.00	21.00	4.00	0.005	6	0.005
240.00	8.50	21.50	2.84	0.003	4	0.003
1245.00	8.00	18.00	0.93	0.002	1	0.002

Sieve Mesh	Sieve Openings		FINE SIEVE SET		Percent Finer (%)
	Inches	Millimeters	Weight Retained (gm)	Cumulative Weight Retained (gm)	
0.375"	0.374	9.51	0.00	0.00	100
#4	0.187	4.75	0.17	0.17	100
#10	0.079	2.00	0.21	0.38	99
#20	0.033	0.84	0.73	1.11	98
#40	0.017	0.42	2.73	3.84	94
#60	0.010	0.25	13.88	17.72	73
#100	0.006	0.15	14.09	31.81	52
#200	0.003	0.07	4.54	36.35	45
Pan			30.26	66.61	0

Total Dry Weight of Sample = 76.16

D85 : 0.3337 mm  
 D60 : 0.1801 mm  
 D50 : 0.1183 mm  
 D30 : 0.0356 mm  
 D15 : 0.0132 mm  
 D10 : 0.0096 mm

## Soil Classification

ASTM Group Symbol : N/A  
 ASTM Group Name : N/A  
 AASHTO Group Symbol : A-4(0)  
 AASHTO Group Name : Silty Soils